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WEATHER BUREAU.

Bulletin N.

PERIODIC VARIATION OF RAINFALL IN THE ARID REGION.

Prepared under the direction of WILLIS L. MOORE, Chief U. S. Weather Bureau,

BY

WILLIAM B. STOCKMAN, Chief, Division of Meteorological Records.

WASHINGTON:
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LETTER OF TRANSMITTAL.

U. S. Department of Agriculture,
Weather Bureau,
Washington, D. C., January 18, 1905.

The Honorable,
The Secretary of Agriculture.

Sir: I have the honor to transmit herewith a paper entitled "Periodic Variation of Rainfall in the Arid Region," with explanatory tables and chart, prepared by Mr. William B. Stockman, chief of division of the Weather Bureau, and to recommend its publication as a Weather Bureau bulletin. The paper was read before the Twelfth National Irrigation Congress, which met in El Paso, Tex., November 16 to 18, 1904, and, with the exception of the chart, will be published in the proceedings of that Congress. It contains much matter which is valuable in answering inquiries concerning precipitation in the arid regions, that are frequently received at the Weather Bureau, on which account its publication as a separate bulletin is recommended.

Very respectfully,
Willis L. Moore,
Chief U. S. Weather Bureau.

Approved.
James Wilson,
Secretary.

PERIODIC VARIATION OF RAINFALL IN THE ARID REGION.

By William B. Stockman.

The greater portion of the precipitation over the Pacific and plateau regions undoubtedly is from the warm, moisture-laden prevalent west and southwest winds that have blown across the expanse of the Pacific Ocean, becoming cooled by being forced up to the high altitudes of the Cascade, Coast, Sierra Nevada, and Rocky mountains; some, however, is due to the influence of cyclonic disturbances passing across those regions. These warm, moist winds coming in contact with the mountains near the coast are forced to an elevation where their capacity to retain moisture is reduced by the lowering of their temperatures, and precipitation results; and the higher the altitude attained the lower the temperature experienced, the less is the capacity of the air to retain moisture. The moisture that still remains in the air after crossing the Cascade and Sierra Nevada ranges is, to a great degree, precipitated upon the higher elevations and summits of the Rocky Mountains. It must be believed, however, that even after crossing the Rockies some moisture still remains in the air.

Over the slope regions to the eastward of the Rocky Mountains the main source of precipitation is the warm, moisture-laden airs from the Gulf of Mexico, supplemented by moist winds from the Great Lakes, and the small amount remaining in the air that has crossed the Rockies; also, perhaps, some from the Atlantic Ocean.

The character, distribution, and amount of precipitation over these regions are very dissimilar, some sections having well-defined wet and dry seasons; some a summer maximum and winter minimum from what might be termed accidental causes, viz, cyclonic disturbances; and others showing two maxima and minima during the year, partly due to the progression of the well-defined winter rain belt of the Pacific coast, and to the passage of cyclonic disturbances at other seasons.

In discussing the precipitation features of the several States and Territories, consideration will be given to and reference made only to the stations whose data have been tabulated, and these stations lie between the ninty-sixth degree of longitude and the central portions of Washington, Oregon, and California.

In the preparation of this paper it was not the intention to tabulate all available precipitation data, but to compile them for a few stations in each State, selected so as to best show the average conditions that have obtained generally over the State and region, due consideration also being given to length and continuity of record and altitude of station.

In the compilation, breaks were found in the continuity of the records from many stations; and from a number of them no record of precipitation from snowfall was obtainable.

Due to the fact that differences in altitude and local topographical features cause dissimilar conditions, or different amounts of precipitation at stations contiguous to each other, and also to the occasional occurrence of torrential rains (so-called cloudbursts), generally over a limited territory, no effort was made to pad or fill out the missing data from the records of some nearby station, but to present the data as they were recorded, except in the case of a very few stations whose contiguity and topographical features are such as to render the belief that like conditions prevailed at both stations almost a certainty. The most distant stations, whose records were thus combined, were Fort Elliott and Amarillo, Tex.

On a large chart diagrams have been drawn for 84 stations in the subarid and arid regions, and for several stations along the Pacific coast, showing in a graphic manner the average precipitation for each month; and by an inspection the monthly distribution over the Pacific, mountain, and plain regions, can readily be determined. On this chart[a] distinctive symbols also have been drawn, showing the location of additional stations, whose data have been compiled and averages computed, and the number whose data were compiled but no averages determined—a red circle for the former and a black circle for the latter; the location and number of all stations in California and Colorado reporting during December, 1903, and the number of such stations in the remaining States and Territories.

The length of the record of data presented varies from nine to fifty-four years, and because of this, and the fact that from several large areas in the entire region under consideration there were no data available, it was deemed unadvisable to attempt to draw lines showing the average monthly or annual amounts (isohyetals), as they, perhaps, might be misleading; yet it was desired to show these averages, and tables were decided upon as the best method to present the monthly and annual values and averages, and pentad (five-year) averages with their departure from the mean of the entire period. These tables are supplemented by others showing for each month, and pentad, the plus and minus departures from the mean of the whole period. In studying these pentad tables the varying length of record from which the averages were determined must be borne in mind, and weight given to the data from those stations having the longest record.

In connection with these pentad tables another was prepared giving for each station, whose data were determined for five-year periods, the amount of positive or negative departure of the average annual precipitation for each pentad, from the average annual precipitation of the entire record. These departures were indicated only when the pentad was unbroken.

Prior to the pentad for the period ending 1868 the data are too few to be taken into consideration. Consulting this table it will be seen that during the several pentads from 1869 to 1903, inclusive, the following number of stations showed an excess or deficiency as compared with the entire period:

Pentad.	Stations.	
	Plus.	Minus.
1869-1873	5	9
1874-1878	16	13
1879-1883	16	22
1884-1888	27	15
1889-1893	26	21
1894-1898	16	33
1899-1903	13	37
Total	119	150

One hundred and nineteen stations showing an excess in average precipitation during the seven pentads under consideration, as against one hundred and fifty stations showing a deficiency. Summarizing the amounts of excesses and deficiencies at the various stations, a total deficiency of 26.02 inches is found for the entire period and the whole number of stations considered.

In the following discussion regarding the distribution and amount of precipitation over the portions of States and Territories under consideration, it is desired to emphasize the fact that deductions are drawn only from the data that were tabulated therewith, and these stations lie between the ninety-sixth degree of longitude and the central portions of Washington, Oregon, and California.

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[a] The chart was reduced by photography, and it was found impracticable to reproduce the colors. Dots showing the location and number of observation stations in each State and Territory have been added.

The relatively small average annual precipitation in the Dakotas is due to their distance from the four sources of moisture of the country—the Pacific Ocean, Gulf of Mexico, Great Lakes, and Atlantic Ocean. Although the States lie in the path of practically all the storms from the Pacific Ocean that cross the Rockies, the greater portion of the moisture brought from the Pacific has been precipitated upon the various mountain chains crossed, and the other three of the sources of moisture are so far distant that the center of the disturbance has passed before much of the moisture borne in the southerly and easterly winds is released and the winds again change to dry northerly and westerly.

For agricultural purposes the monthly distribution of precipitation is favorable, as the maximum monthly averages occur generally from May to August, inclusive—with fair amounts in April and September in North Dakota, and in South Dakota from April to August, inclusive—with fair amounts in March, and in the eastern portion of the State in September. In North Dakota and eastern South Dakota the minimum averages occur in the months November to February, inclusive, and in western South Dakota from September to February, inclusive.

Nebraska obtains its precipitation from the same sources as the Dakotas, but on account of being nearer the Gulf of Mexico—the main source of supply—the averages, as a rule, are greater than in the Dakotas.

The distribution for crop needs is very favorable, the maximum occurring generally over the State from April to August, inclusive, and in the eastern portion over September. The minimum occurs generally from November to February, inclusive, beginning somewhat earlier in the fall, and continuing somewhat later in the spring, in the western portion. As is the case in the Dakotas, the average amounts decrease from eastward to westward.

Kansas, as well as Oklahoma and Texas, receives most of its precipitation from the moisture-laden winds from the Gulf of Mexico. In Kansas the maximum monthly amounts occur during the growing season, from April to September, inclusive, generally over the State, and the minimum amounts from November to March, inclusive.

The precipitation is greater in Oklahoma than in Kansas, with a monthly average of more than 2 inches in the months from April to October, inclusive. The minimum occurs from November to February, inclusive, and is generally over 1 inch per month.

The season of maximum rainfall in Texas varies a good deal, and the amounts diminish from the Gulf of Mexico northward and from the eastern portion of the State westward. In the eastern and northwestern portions it occurs generally from May to September, inclusive; occasionally stations show an earlier beginning and a later ending of the periods, when the monthly average amounts to more than 2 inches. At El Paso there is but one month, July, when the average amounts to 2 inches. In this section the rainy period may be considered to cover the months of July, August, and September. Generally over the State the months with minimum amounts are from November to March, inclusive, while in the southwestern portion the dry period continues into April and at El Paso into June.

The conditions in southwestern Texas differ from those in the region already discussed, and should be classed with the next tier of States to be considered—Montana southward to the Mexican border—and over which area less moisture is received from the Gulf of Mexico; consequently the average monthly and annual amounts of precipitation are less than in the region to the eastward.

In Montana there is but one station, Havre, that shows a monthly average of 2 inches or more, other than in May and June. Havre has an average of 2 inches or more in July also. At Fort Shaw the greatest monthly average does not equal 2 inches. At the majority of the stations the monthly average is less than 1 inch from October to February, inclusive. In the southwestern portion the minimum monthly amounts appear to occur at various periods from late summer to early spring.

There are few months with an average of 2 inches or more in Wyoming. In the eastern part of the State the greatest monthly amounts occur from April to July, inclusive, and in the western portion somewhat earlier. The minimum averages generally occur from October to March, inclusive, except in the extreme southwestern portion, where they appear to occur in the summer and early fall.

In Colorado the months of greatest precipitation vary, being from April to August, inclusive, in the central and eastern portions; in the fall and winter seasons in the southwestern portion, and in the summer and early fall in the west-central portion of the State. In the central and eastern portions the least precipitation generally occurs between September and March, inclusive; in the late spring in the southwestern portion, and generally in the winter in the west central portion, although the difference between the several seasons is very slight.

The difference in the average amounts of precipitation in New Mexico is very marked. In the northeastern portion the months of greatest precipitation are from May to October, with a small average precipitation during the remaining months. In the western portion the greatest precipitation is during July, August, and September, occasionally extending into October. In this section also the average monthly amounts are small during the remainder of the year.

The distribution of precipitation in Idaho is peculiar. Generally the maximum amounts occur from November to February, or March, inclusive, but at several stations it continues into May, and at others into June. The months of least precipitation generally are July, August, and September, in some localities beginning with June, and in others extending into October, but the lack of stations and entire want of records from some sections render any satisfactory deductions impracticable.

In Utah the average monthly amounts also are variable and the distribution over the several portions of the State throughout the year dissimilar. In the eastern portion the greatest amounts generally occur in the months of July, August, and September, and over the central and western portions generally from October to May, inclusive, except in the southwestern portion, where the season does not appear to be so long.

Arizona appears to have two rather well-defined periods of maxima and minima monthly amounts, and generally the maxima occur during July, August, and September, and December, January, and February. In the western portion of the Territory, especially the southwestern portion, the average annual amount is very small, and is but 2.65 inches at Yuma, which is considerably less than some of the average monthly amounts at several stations in the southeastern portion of the Territory.

In Nevada also the annual amounts differ considerably and are least in the western portion of the State. The northern portion has somewhat larger averages than the eastern, but considerably less than the southeastern portion. The months of greatest precipitation are from December to March, inclusive, and at some stations extending into April and May.

In Washington there is a well defined rainy season, which begins in September and continues into June in the eastern portion, as it also does in sections of the west-central portion. In the northwestern portion of the section under consideration, the rainy season appears to be from November to February, inclusive.

In Oregon a well defined rainy season obtains, and continues generally from November to June, inclusive, and in portions of both the eastern and western sections begins in October.

California's precipitation varies greatly in amounts, ranging from 1.87 inches at Mammoth Tank to 81.66 inches at Upper Mattole. It also has well defined rainy and dry seasons, the beginnings and endings of which vary in different portions of the State, the rainy season as a rule covering the period from January to April. The least precipitation in the State occurs in the southeastern portion.

TABLE I.—*Departure of pentad annual from the average of the entire period.*

[The figures of Table I indicate the excess (+) or deficiency (−) of the annual average for the pentad (five years) ending with the year at the head of the column, as compared with the average annual precipitation for the entire period of observation.]

	1858	1863	1868	1873	1878	1883	1888	1893	1898	1903
Arizona:										
Fort Apache						+4.37	+2.19	−3.08	−0.98	−3.67
Fort Bowie				−1.91	+0.44	−1.15	+4.80	−2.58		
Fort Grant				+4.60	+1.51	+ .72	+3.39	−2.33	− .97	−5.05
Fort Mohave				− .49	+ .40		+2.61			
Prescott						−1.37	+2.98	+1.37	− .03	−2.27
Tucson				− .90	+2.55	+ .30	− .73	+1.82	− .55	−2.56
Yuma				− .31	+ .47	− .85	+1.16	+ .68	− .32	−1.40
California:										
Fort Bidwell					−4.12	− .61				
Bishop							−1.22	+1.99	−1.32	+ .56
Caliente						− .89	+ .90	− .21	+1.76	− .96
Chico					− .38	−4.14	−3.51	+4.14	+2.48	+1.22
Fresno						−1.89	+2.99	− .02	− .10	− .81
Indio						− .07	− .17	+ .95	+ .05	− .50
Keeler								+ .40	−1.02	− .38
Los Angeles					+3.44	−2.68	+4.92	+3.92	−5.78	−4.00
Mammoth Tank						− .02	+ .22	+1.10	−1.31	+ .05
Merced					−1.80	− .35	+ .45	+ .15	+ .26	+ .52
Mojave						−2.26	+2.97	+1.95	− .72	−1.46
Redding						−2.65	−6.53	+5.13	−3.10	+5.08
Sacramento	−2.81	+0.27	+2.01	−2.34	−1.03	+2.04	+1.86	+1.57	−1.20	−1.25
Salinas					+ .30	− .83	+1.31	+2.41	− .67	−1.95
San Bernardino					+1.38	−2.47	+5.86	+3.20	−3.78	−3.11
San Diego	.16	−1.86	+1.45	−1.41	− .02	+ .16	+4.73	+1.07	−1.81	−1.63
San Luis Obispo					+ .43	−1.67	+5.08	+3.31	−5.27	+ .57
Santa Barbara				−4.40	+1.54	− .34	+6.25	+3.82	−4.56	−2.14
Susanville								+3.74	+ .06	−3.81
Truckee					+ .03	+ .02	−4.79	+5.37	− .16	−1.73
Yreka					−1.81	−1.17	+ .19	+ .56	+2.87	
Colorado:										
Denver					+2.71	− .39	− .21	− .03	+ .45	−2.52
Las Animas									+ .67	+1.47
Pikes Peak					− .60	+5.02				
Yuma									− .53	− .16
Idaho: Boise				+5.77	−1.09		− .21	−1.38		−2.09
Kansas: Dodge						+1.41	+2.07	−1.74	+ .82	− .69
Montana:										
Havre								−1.87	− .87	+ .33
Helena							− .31	− .58	+ .45	−1.80
Miles City						+1.11	− .38	− .50	.00	− .71
Nebraska: North Platte				+1.01	− .05	+3.95	−2.18	+ .31	−2.75	−2.27
Nevada: Winnemucca						+ .83	+1.79	+ .01	− .11	−1.24
New Mexico:										
Fort Wingate				+7.00	−1.71	−2.06	+ .24		+ .94	−4.03
San Marcial	−1.22				+ .30		+1.10			
Santa Fe	+3.98				+2.93			−1.58	+1.84	−1.10
North Dakota:										
Bismarck						+ .68	− .83	−1.30	−2.16	− .77
Williston				−1.42	−1.80	+1.66	−1.77	− .15	+2.27	+1.83
Oklahoma: Fort Sill					+2.44			+ .39	−3.08	+2.96
Oregon: The Dalles						+ .70			−2.08	−1.37
South Dakota: Pierre				+1.44	+1.74	+ .58	−1.28	−1.82	−2.54	+1.84
Texas:										
Abilene								−1.61	+ .35	+ .14
El Paso						+2.78	+ .71	−2.53	− .77	− .19
Fort Ringgold	+2.46				−2.71		+5.35		−2.27	−7.68
San Antonio								+ .31	−4.20	2.02
Utah: Salt Lake City			+3.29	+5.79		−2.82	− .77	−1.82	−1.36	2.81
Washington:										
Spokane							+ .52	−2.88	− .43	− .03
Walla Walla								−2.46	− .39	.75
Wyoming:										
Cheyenne					−2.75	−1.84	+ .48	+1.17	+2.78	+1.81
Fort Washakie								− .31	+2.24	− .62

TABLE I.—*Departure of pentad annual from the average of the entire period*—Continued.

RECAPITULATION.

	1858	1863	1868	1873	1878	1883	1888	1893	1898	1903	Total.
Number of excess (+).......	2	1	3	5	16	16	27	26	16	13	119
Number of deficiency (−)...	3	1	0	9	13	22	15	21	33	37	150
Sum of excess (+)...........	6.44	.27	6.75	24.60	22.61	26.33	61.90	50.84	20.29	18.38	224.95
Sum of deficiency (−).......	4.19	1.86	0	14.19	19.87	32.52	24.89	30.78	57.19	71.53	250.97
Average excess (+)..........	3.22	.27	2.25	4.92	1.41	1.65	2.29	1.96	1.27	1.41	....
Average deficiency (−)......	1.40	1.86	0	1.58	1.53	1.48	1.66	1.47	1.73	1.93	....

In Table II are shown the average monthly and annual precipitation at selected representative stations in the arid region.

Under "Years of record" the length of record is shown, and where this is different for the various months, the greatest and least number of years is stated.

In the column entitled "Combined with" are given the names of adjacent stations from which data were used to continue or complete the records compiled.

The monthly precipitation for stations marked with an asterisk (*) is graphically shown on the chart.

TABLE II.—*Average monthly and annual precipitation at selected representative stations in the arid region.*

Station.	Latitude.	Longitude.	Altitude.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Years of record.	Combined with—
North Dakota:	° ′	° ′	*Feet.*															
Fort Abercrombie	46 27	96 21	935	0.43	0.61	1.13	1.89	2.41	3.69	3.10	2.79	1.86	1.22	0.53	0.53	20.19	27-31	Wahpeton.
*Pembina	48 57	97 03	789	.52	.76	.91	1.54	2.42	3.75	2.74	2.44	2.08	1.68	.71	.85	20.35	23-25	St. Vincent, Minn.
Devils Lake	48 08	98 51	1,434	.44	.52	.99	1.28	2.18	3.67	2.58	2.74	1.14	1.35	.70	.50	18.09	26-28	Fort Totten.
Fort Yates	46 11	100 34	1,670	.55	.67	1.08	1.88	1.74	3.55	2.28	1.98	.95	.82	.52	.47	16.49	22	
*Bismarck	46 47	100 38	1,674	.53	.52	1.11	1.93	2.41	3.45	2.20	2.03	1.22	1.06	.62	.61	17.69	29	
Coalharbor	47 36	101 10	1,960	.45	.50	1.16	1.11	2.07	3.19	2.03	2.37	1.68	.94	.55	.50	16.55	19-23	Fort Stevenson.
*Williston	48 09	103 35	1,875	.54	.55	.66	1.09	2.33	3.02	1.79	1.32	.89	.85	.60	.60	14.24	36-37	Fort Buford.
South Dakota:																		
Wadsworth	45 43	97 10	1,773	.63	.91	1.24	2.00	2.70	3.21	3.12	2.73	1.32	1.78	.68	.71	21.03	15-20	Fort Sisseton.
Yankton	42 54	97 28	1,233	.51	.74	1.25	3.12	3.77	4.01	3.88	3.04	2.79	1.28	.67	.87	25.95	29-30	
Huron	44 21	98 14	1,306	.50	.48	1.02	2.76	2.65	3.63	2.78	2.34	1.60	1.23	.58	.62	20.19	22	
Fort Randall	43 01	98 33	1,236	.43	.61	1.08	1.95	3.43	3.28	2.64	3.55	1.87	1.28	.49	.82	20.43	34-36	
*Pierre	44 22	100 21	1,572	.45	.44	1.18	2.02	2.28	3.23	2.70	2.00	1.01	.59	.44	.51	16.85	35	Fort Sully.
Rosebud	43 25	100 50	2,600	.85	.66	1.46	2.53	2.10	2.83	2.49	1.97	.98	.83	.60	1.10	18.35	9-12	
*Rapid City	44 04	103 12	3,234	.34	.45	1.15	2.17	3.22	3.60	1.94	1.34	.94	.63	.41	.29	16.48	18-19	
*Fort Meade	44 25	103 25	3,624	.79	.65	1.57	2.61	3.65	3.40	2.01	1.76	.80	.83	.64	.57	19.28	23-24	
Ashcroft	45 45	103 54	3,192	.50	.41	1.46	1.20	2.32	2.93	1.54	1.24	.98	.53	.58	.38	14.02	11-12	
Nebraska:																		
Ravenna	41 02	98 54	1,997	.65	.92	1.40	2.67	3.55	3.96	4.31	3.07	2.14	1.71	.59	.64	25.61	26	
Fort Kearney	40 38	98 57	2,360	.45	.59	1.20	2.53	4.53	3.76	4.50	2.93	2.33	1.70	.81	.49	25.82	24-25	
Valentine	42 50	100 32	2,598	.50	.70	1.31	2.47	2.67	3.21	2.98	2.44	1.09	.84	.51	.48	19.20	17-18	
*North Platte	41 08	100 45	2,821	.38	.42	.71	2.07	2.88	3.12	2.49	2.27	1.59	.90	.42	.49	17.74	35	Fort McPherson,
Culbertson	40 15	100 48	2,576	.39	.65	1.03	2.48	2.69	3.50	2.85	2.54	1.37	1.08	.38	.37	19.33	14-15	
*Hay Springs	42 40	102 40	3,821	.62	.72	1.60	2.18	3.17	3.57	2.68	1.83	.87	1.09	.58	.71	19.62	21-23	Fort Sheridan.
*Fort Sidney	41 09	102 58	4,073	.65	.66	.85	1.76	2.57	1.61	2.45	1.55	1.02	.77	.32	.48	14.69	24-26	Kimball.
Fort Robinson	42 49	103 24	3,764	.70	.56	1.29	1.71	2.54	2.75	2.20	1.45	.92	1.31	.44	.70	16.57	20	
Gering	41 45	103 45	3,902	.49	.66	.86	1.75	2.51	2.58	1.97	1.33	1.02	.68	.42	.57	14.84	11-15	
Kansas:																		
*Fort Riley	39 03	96 57	1,300	.57	.90	1.06	2.68	3.52	3.94	3.75	3.59	2.83	1.61	1.14	.87	26.46	45-47	
Eureka Ranch	38 56	99 33	2,320	.65	.91	.81	2.14	2.95	3.05	3.10	2.11	2.12	1.31	.54	.61	20.30	21	
*Dodge	37 45	100 00	2,509	.47	.73	.88	1.85	3.16	3.43	3.23	2.50	1.47	1.48	.50	.58	20.28	29-30	
Gove	38 58	100 30	2,750	.45	.78	.68	2.31	2.97	3.41	3.58	1.89	2.51	1.09	.52	.51	20.70	12-15	
*Oberlin	39 48	100 32	2,539	.43	.95	1.58	3.16	3.60	3.41	3.82	2.48	1.83	1.05	.63	.61	23.55	16-17	
Garden City	37 58	100 42	2,836	.33	.96	.87	1.99	2.37	3.39	2.96	2.00	1.69	.97	.39	.60	18.52	13-14	Lakin.
*Wallace	38 54	101 35	3,303	.24	.44	.46	1.67	2.62	2.33	3.47	1.91	1.30	.91	.38	.42	16.15	28-30	Fort Wallace.
Viroqua	37 02	101 50	3,215	.44	.84	.60	1.62	2.21	2.47	3.46	1.83	1.90	1.15	.37	.73	17.62	12-13	
Oklahoma:																		
*Fort Reno	35 35	98 01	1,400	.93	1.41	1.82	2.59	4.85	3.33	2.80	2.89	2.95	2.67	1.49	1.34	29.07	33-34	
*Fort Sill	34 40	98 25	1,200	1.03	1.16	1.54	2.77	4.83	3.42	3.14	2.84	3.00	2.57	1.75	1.72	29.77	19-21	
Texas:																		
*Fort Ringgold	26 05	96 25	230	1.02	.83	.89	1.13	2.37	2.41	1.47	2.36	3.20	1.84	.85	.88	19.25	40-44	Rio Grande City.
*San Antonio	29 27	98 28	701	1.65	2.21	1.95	2.72	2.87	2.74	2.34	3.14	3.55	1.90	2.07	1.88	29.02	33-34	

TABLE II.—*Average monthly and annual precipitation at selected representative stations in the arid region*—Continued.

Station.	Latitude.	Longitude.	Altitude.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Years of record.	Combined with—
Texas—Continued.	° ′	° ′	*Feet.*															
* Fort McIntosh	27 30	99 30	460	0.83	1.10	0.93	1.36	2.25	2.40	1.80	2.49	2.55	1.46	0.76	0.94	18.87	38–40	Laredo.
* Menardville	30 54	99 38	1,960	.99	1.21	1.02	1.34	2.91	2.59	2.36	2.26	3.49	2.02	2.41	1.42	24.02	30–33	Fort McKavett.
* Abilene	32 23	99 40	1,738	.88	1.23	1.34	2.31	3.76	2.99	1.97	2.04	3.25	2.17	1.27	1.38	24.59	17–18	
Fort Clark	29 17	100 25	1,050	.91	.96	1.13	1.62	3.35	3.23	1.76	2.31	3.34	1.66	1.17	1.67	23.11	34–36	Brackettville.
Fort Concho	31 32	100 26	1,950	.84	1.04	.93	1.69	3.24	2.32	2.80	2.83	3.05	1.77	1.12	1.37	23.00	17–18	
Eagle Pass	28 40	100 29	800	.73	1.03	1.21	1.37	2.67	2.95	1.90	2.42	3.80	1.51	1.03	1.02	21.64	32–35	Fort Duncan.
* Silver Falls	33 40	101 07	3,800	.55	.84	.31	1.52	1.37	2.22	2.63	1.85	1.57	1.36	.74	.59	15.56	16–17	Mount Blanco.
* Amarillo	35 13	101 50	3,676	.61	.74	.50	2.11	3.95	3.06	2.77	2.90	2.05	2.16	.70	.84	22.39	22–23	Fort Elliott.
Fort Stockton	30 50	102 35	3,050	.39	.53	.65	.32	1.34	1.90	2.19	2.44	3.63	1.22	.65	.78	16.04	21–24	
* Fort Davis	30 40	104 07	5,000	.62	.37	.30	.59	1.09	2.09	3.20	3.82	2.97	1.30	.52	.37	17.24	23–26	
* El Paso	31 47	106 30	3,762	.52	.38	.34	.21	.38	.54	2.14	1.67	1.29	.92	.45	.46	9.30	25–26	
Montana:																		
Glendive	47 06	104 31	2,069	.77	.68	1.32	1.22	2.43	3.61	1.96	.85	1.04	1.01	.75	.72	16.36	14	
Poplar	48 06	105 07	1,955	.68	.61	.86	.96	1.83	2.44	1.63	.95	.86	.75	.91	.48	12.96	17–20	Camp Poplar and Poplar River.
* Miles City	46 25	105 49	2,371	.50	.47	.88	1.13	2.22	2.64	1.36	1.07	.82	.86	.46	.36	12.76	26	Fort Keogh.
* Crow Agency	45 42	107 34	3,041	.73	.50	.72	1.38	2.23	2.67	1.34	.94	.88	1.08	.74	.56	13.77	22–24	Fort Custer.
* Havre	48 34	109 40	2,505	.76	.51	.53	.97	2.06	2.90	2.08	1.32	1.15	.65	.74	.53	14.20	21–24	Fort Assinniboine.
Martinsdale	46 27	110 19	4,707	1.07	.81	1.13	1.39	2.27	2.60	1.54	.64	1.35	.78	1.18	.82	15.58	13–14	Twodot.
Fort Benton	47 50	110 40	2,730	.61	.45	.56	1.10	2.65	2.33	1.69	.79	.93	.61	.59	.61	12.92	22–25	
* Bozeman	45 41	111 03	4,754	.88	.86	1.54	1.84	3.80	3.17	1.23	1.00	1.58	1.34	1.01	1.17	19.42	23–27	Fort Ellis.
Fort Shaw	47 30	111 48	6,000	.60	.41	.45	.59	1.98	1.86	1.02	.84	.84	.61	.45	.54	10.19	20–22	
Virginia City	45 20	112 03	5,480	.55	.63	1.04	1.23	2.74	2.63	1.24	1.15	1.42	.97	.86	.86	15.32	16–17	
* Helena	46 34	112 04	4,110	1.17	.67	.88	1.20	2.06	2.14	1.10	.61	1.17	.83	1.03	.83	13.69	25–26	
* Missoula	46 45	113 45	3,300	1.51	.93	1.08	.98	2.16	2.15	1.03	.76	1.12	1.20	1.44	1.67	15.98	20–27	Fort Missoula.
Wyoming:																		
* Fort Laramie	42 12	104 38	4,250	.42	.53	.76	1.50	2.62	1.54	1.45	1.08	.92	.77	.48	.49	12.56	33–37	
* Cheyenne	41 08	104 48	6,088	.38	.54	.91	1.65	2.20	1.52	1.91	1.45	1.03	.66	.36	.38	12.99	34	
Fort Sanders	41 17	105 35	7,168	.50	.58	.60	1.13	1.47	1.39	1.66	1.57	1.02	.80	.80	.52	12.04	9–11	
Fort McKinney	44 23	106 46	4,635	.46	.54	.72	1.42	1.81	2.02	1.09	.82	.61	.56	.36	.37	10.78	12–14	Buffalo.
* Fort Washakie	43 01	108 54	5,462	.41	.31	1.39	2.15	2.01	1.21	.75	.68	.74	1.10	.42	.56	11.73	17–18	
* Fort Bridger	41 20	110 23	6,656	.83	.65	.91	1.01	1.14	.58	.55	.78	.60	.72	.80	.77	9.34	30–37	Evanston.
Fort Yellowstone	44 59	110 44	6,370	2.49	1.95	2.16	1.46	1.76	1.59	1.23	1.06	.98	1.16	2.25	1.96	20.05	15–17	
Colorado:																		
Yuma	40 09	102 42	4,149	.60	.93	1.18	2.31	2.21	2.54	2.27	2.27	.65	.53	.38	.56	16.43	13	
Leroy	40 34	102 56	4,380	.48	.85	.93	2.16	2.38	1.93	1.90	1.95	.82	.67	.28	.50	14.85	13–14	
* Las Animas	38 03	103 12	3,892	.21	.36	.59	1.16	1.78	1.23	1.77	1.80	.84	.65	.21	.39	10.99	32–37	Fort Lyons.
Pueblo	38 18	104 36	4,685	.41	.61	.65	1.87	.94	1.30	1.99	1.67	.90	.58	.54	.50	11.96	27–29	Fort Reynolds and South Pueblo.
Colorado Springs	38 51	104 47	6,098	.18	.28	.64	1.59	2.32	1.93	2.87	2.12	.99	.65	.29	.30	14.16	23–28	Husted.
* Denver	39 44	105 00	5,291	.53	.54	.95	2.01	2.49	1.36	1.57	1.32	.91	.89	.62	.64	13.83	34	
Fort Collins	40 35	105 02	4,994	.43	.60	1.04	2.19	2.77	1.63	1.77	1.27	1.21	.94	.33	.35	14.53	17	
* Pikes Peak	38 50	105 02	14,108	1.65	1.38	2.14	3.77	3.76	1.82	4.45	3.92	1.77	1.41	1.84	1.49	29.40	14	
* San Luis	37 14	105 24	7,996	.44	.87	.79	1.23	1.20	1.06	2.41	1.81	1.29	.73	.93	.93	13.69	31–34	Forts Massachusetts and Garland.

TABLE II.—*Average monthly and annual precipitation at selected representative stations in the arid region*—Continued.

Station.	Latitude.	Longitude.	Altitude.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Years of record.	Combined with—
Colorado—Continued.	° ′	° ′	*Feet.*															
*Durango	37 15	107 50	6,505	1.37	1.55	1.09	1.13	0.90	0.71	1.92	1.92	1.45	1.46	1.22	1.74	16.46	24–26	Fort Lewis and Hermosa.
*Montrose	38 30	107 56	5,811	.58	.67	.73	.84	.57	.34	.84	1.18	.91	.70	.46	.63	8.45	18–19	Delta.
New Mexico:																		
Gallinas Spring	35 14	104 48	5,272	.44	.56	.56	.94	1.74	1.92	2.81	2.12	1.79	1.04	.65	.70	15.27	18–19	
*Fort Union	35 54	105 01	6,744	.50	.45	.50	.84	1.83	2.29	4.14	4.27	2.06	1.01	.65	.52	19.06	40–43	
Fort Stanton	33 29	105 38	5,000	.56	.66	.90	.59	.99	1.79	2.96	3.54	2.12	1.39	.78	.96	17.24	23–28	
*Santa Fe	35 41	105 57	7,013	.61	.88	.72	.78	1.01	1.14	2.80	2.65	1.58	1.03	.74	.72	14.66	44–48	Fort Marcy.
Albuquerque	35 02	106 40	5,008	.39	.27	.21	.27	.36	.82	1.17	1.29	.88	.78	.41	.29	7.14	25–29	
*San Marcial	33 41	106 58	4,554	.29	.38	.26	.17	.28	.68	1.87	2.11	1.65	.91	.58	.35	9.53	37–42	Fort Conrad, Fort Craig, and Lava.
*Fort Wingate	35 29	107 45	6,982	.99	1.51	.91	.88	.59	.60	2.27	2.13	1.32	1.06	.77	.97	14.00	37–39	
Deming	32 18	107 48	4,315	.44	.46	.45	.07	.20	.40	1.81	1.50	1.36	.72	.41	.32	8.14	20–22	
*Fort Bayard	32 46	108 30	4,450	.78	.93	.63	.25	.32	.65	3.25	3.23	2.09	1.12	.72	.72	14.69	30–32	Silver City.
Lordsburg	32 20	108 40	4,245	.53	.32	.45	.09	.22	.22	1.62	1.66	.97	.66	.40	.41	7.55	19–22	
Idaho:																		
Lake	44 36	111 20	6,000	2.29	1.93	1.85	1.00	1.30	1.56	.70	.68	.92	1.00	1.42	2.45	17.10	9–14	
American Falls	42 47	112 52	4,346	1.23	1.17	1.26	1.43	1.47	.63	.53	.38	.50	.92	1.12	1.28	11.37	11–14	
*Boise	43 37	116 08	2,739	2.15	1.52	1.76	1.25	1.60	.75	.21	.20	.40	1.02	1.32	1.76	13.94	34–36	
Porthill	48 22	116 30	1,750	3.48	2.20	1.39	1.17	2.34	1.89	1.12	.95	2.29	1.92	3.54	2.99	25.28	12–15	
Fort Sherman	47 42	116 38	2,106	3.75	2.93	2.98	1.94	2.04	1.37	.69	.89	1.71	1.76	4.57	3.93	28.56	10–12	
Payette	44 04	116 57	2,195	1.56	1.47	1.00	.89	1.38	.59	.28	.26	.55	.85	1.28	1.48	11.59	12–14	
Moscow	46 48	117 00	2,569	2.75	2.18	1.92	1.61	2.88	1.26	.70	.76	1.42	1.85	3.48	2.67	23.48	12	Pullman, Wash.
*Lewiston	46 25	117 02	757	1.48	1.37	1.38	1.01	1.82	1.60	.47	.48	.76	1.28	1.96	1.93	15.54	26–34	Fort Lapwai.
Utah:																		
*Moab	38 36	109 29	4,000	.61	.62	.94	.55	.70	.31	.66	.70	1.04	.60	.56	.69	7.98	15–16	
*Fort Duchesne	40 35	109 50	4,941	.37	.35	.58	.61	.66	.21	.53	.69	.95	.56	.28	.56	6.36	16	
Loa	38 24	111 41	7,000	.46	.52	.52	.43	.38	.21	.99	1.27	.50	.49	.34	.26	6.37	11–12	
Levan	39 34	111 53	5,010	1.36	1.40	2.06	1.81	1.81	.55	.57	.68	1.06	1.29	.97	1.72	15.28	14–15	
*Salt Lake City	40 46	111 54	4,366	1.55	1.42	1.96	2.12	2.30	.84	.62	.83	.82	1.47	1.36	1.78	17.07	40–41	Fort Douglas.
*Ogden	41 12	111 57	4,307	1.63	1.54	1.63	1.43	1.71	.57	.24	.47	.69	1.40	1.23	1.72	14.26	33	
*Corinne	41 34	112 06	4,232	1.34	1.21	1.27	1.12	1.27	.51	.47	.41	.63	1.00	1.07	1.55	11.85	33	
*Parowan	37 51	112 51	5,970	1.04	1.32	1.79	1.23	1.04	.25	.84	1.43	.72	.83	.54	.82	11.85	13–14	
*St. George	37 09	113 35	2,800	1.21	1.15	.96	.48	.63	.55	.82	.73	.42	.68	.61	.81	9.05	20–22	Mount Carmel.
Arizona:																		
Fort Bowie	32 12	109 20	4,872	1.06	1.78	1.28	.21	.31	.63	3.15	2.90	1.23	.64	.67	1.24	15.10	26	
*Fort Apache	34 00	109 45	5,004	1.26	1.68	1.44	.60	.64	.67	3.23	3.52	1.61	1.20	1.15	1.42	18.37	28	
*Fort Grant	32 36	109 53	4,833	.97	1.09	.88	.39	.28	.49	3.25	3.20	1.67	.84	.71	1.20	14.97	34–35	
*Tucson	32 14	110 53	2,390	.73	.88	.71	.24	.12	.22	2.42	2.62	1.12	.57	.64	.95	11.22	36	Fort Lowell.
Phoenix	33 28	112 00	1,108	.79	.80	.57	.27	.13	.09	.90	.95	.98	.42	.67	.93	7.50	26–27	Tempe.
*Prescott	34 33	112 08	5,320	1.50	1.49	1.51	.75	.53	.23	2.67	3.01	1.00	.75	.97	1.51	15.92	35–37	Fort Whipple.
*Fort Mohave	35 02	114 36	755	.67	.85	.37	.28	.12	.04	.22	.53	.06	.24	.58	.98	4.89	33–35	Needles, Cal.
*Yuma	32 45	114 36	141	.34	.40	.20	.05	.02	.00	.18	.45	.19	.16	.28	.38	2.65	51–53	Fort Yuma, Cal.

TABLE II.—*Average monthly and annual precipitation at selected representative stations in the arid region*—Continued.

Station.	Latitude.	Longitude.	Altitude.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Years of record.	Combined with—
Washington:	° ′	° ′	*Feet.*															
Rosalia	47 15	117 22	2,300	2.24	1.66	1.56	1.61	2.26	0.80	0.74	0.72	1.36	1.38	3.69	2.36	20.36	11–12	
*Spokane	47 40	117 25	1,943	2.39	1.96	1.38	1.27	1.45	1.49	.71	.52	.94	1.36	2.33	2.42	18.22	22–23	
*Colville	48 42	118 02	1,963	2.26	1.55	1.50	1.01	1.80	1.45	1.28	.62	.70	1.11	2.05	1.94	17.27	20–23	
*Walla Walla	46 02	118 20	1,000	2.16	1.81	1.74	1.51	2.00	1.11	.46	.40	1.15	1.43	2.31	2.19	18.27	27–31	Fort Walla Walla.
*Waterville	47 40	120 05	2,500	1.75	1.37	.81	1.07	1.48	.86	.27	.52	.50	.72	1.69	2.09	13.13	13–14	
Moxee	46 37	120 31	1,000	1.74	.93	.49	.56	.76	.45	.15	.22	.45	.46	1.45	1.10	8.76	11–12	
Ellensburg	47 00	120 32	1,577	1.32	1.12	.42	.68	.67	.38	.20	.14	.51	.50	1.77	1.48	9.19	13–15	
*Olympia	47 03	122 53	52	8.03	6.78	5.12	3.97	2.68	1.71	.71	.72	2.83	4.45	8.39	9.78	55.17	25–27	
Oregon:																		
Joseph	45 21	117 15	4,400	1.78	1.60	1.83	1.43	1.75	1.79	.63	.82	1.19	1.46	1.80	1.44	17.52	14	
*Baker City	44 50	117 50	3,471	1.36	1.45	1.30	.97	1.72	1.20	.42	.44	.83	.93	1.25	1.51	13.38	14–15	
Harney	43 00	119 00	4,150	1.51	1.11	1.31	.98	.88	.76	.32	.20	.23	.49	1.48	1.40	10.67	10–12	
Lakeview	40 12	120 12	5,060	2.49	2.25	1.73	1.37	1.67	1.15	.30	.29	.68	.90	2.07	2.20	17.10	15–18	
*The Dalles	45 33	120 50	116	3.18	2.29	1.50	.70	.65	.54	.20	.21	.89	1.22	2.65	3.49	17.52	38–40	Fort Dalles.
Fort Klamath	42 40	121 50	4,200	3.26	2.56	2.37	1.50	1.22	1.07	.49	.25	.44	1.74	3.12	3.46	21.48	12–15	
*Portland	45 32	122 43	154	6.61	5.77	5.20	3.24	2.47	1.71	.56	.63	1.75	3.44	6.47	7.28	45.13	34	
Nevada:																		
Toana	41 07	114 26	5,975	.93	.83	.85	.80	.92	.66	.28	.22	.24	.44	.66	1.30	8.13	31–34	
Ely	39 10	114 57	6,000	1.06	1.12	1.73	1.48	1.59	.33	.55	1.01	.63	.76	.84	1.30	12.40	14–16	
*Halleck	40 56	115 30	5,229	.99	1.04	.99	.77	.93	.52	.15	.16	.16	.47	.55	1.16	7.89	32–34	
Tybo	38 21	116 30	6,500	1.19	1.12	1.20	.61	1.15	.10	.61	1.29	.12	.46	.33	1.00	9.18	9–11	
Beowawe	40 36	116 32	4,695	.77	.75	.68	.56	.75	.40	.21	.12	.22	.40	.59	.88	6.33	31–34	
*Austin	39 29	117 05	6,594	1.26	1.28	1.54	1.47	1.57	.68	.43	.52	.33	.66	.66	1.17	11.57	15–18	
Palmetto	37 27	117 37	6,500	1.57	1.68	2.23	1.16	1.54	.64	1.08	3.41	.55	.66	.72	1.02	16.26	13–14	
*Winnemucca	40 58	117 43	4,344	1.15	.91	1.01	.79	.96	.57	.16	.13	.27	.61	.78	1.01	8.35	32–34	
Humboldt	40 38	118 14	4,236	.82	.83	.60	.63	.66	.35	.05	.08	.18	.46	.40	.62	5.68	31–34	
Hawthorne	38 33	118 36	4,569	.61	.42	.19	.30	.44	.24	.17	.21	.19	.19	.33	.41	3.70	19–20	
Wadsworth	39 38	119 19	4,077	.76	.61	.38	.39	.49	.16	.20	.15	.16	.27	.32	.54	4.43	31–34	
Carson City	39 10	119 46	4,720	2.32	1.44	1.35	.81	.59	.34	.16	.20	.24	.47	1.37	1.75	11.04	26–28	
California:																		
*Fort Bidwell	41 50	120 10	4,740	3.71	2.43	2.30	1.58	1.38	1.16	.30	.17	.44	1.02	2.03	3.19	19.71	24–26	
*Yreka	41 45	122 32	2,635	3.15	2.09	1.45	.99	1.20	.60	.39	.27	.38	1.22	2.40	2.99	17.13	29–30	
*Redding	40 36	122 27	565	7.15	4.75	4.78	3.07	2.16	.71	.08	.08	.71	2.56	4.37	6.58	37.00	29	
Susanville	40 23	120 35	4,195	3.98	2.92	2.59	1.32	1.52	.50	.13	.22	.65	1.56	2.88	3.55	21.82	15	
*Chico	39 43	121 48	193	4.35	3.49	2.77	1.76	.92	.41	.03	.02	.45	1.39	2.84	4.04	22.47	33	
*Truckee	39 19	120 01	5,819	5.53	4.90	4.04	2.22	1.14	.37	.19	.11	.25	1.06	2.53	4.44	26.78	34	
*Sacramento	38 35	121 30	69	3.75	2.85	2.80	1.73	.81	.11	.03	.01	.17	.85	2.18	3.99	19.28	54	
*San Francisco	37 48	122 26	155	4.83	3.51	3.19	1.80	.71	.13	.02	.01	.23	1.00	2.66	4.72	22.81	54	
*Bishop	37 20	118 19	4,450	1.00	.69	.51	.21	.31	.07	.10	.10	.11	.12	.43	.77	4.42	20	
*Merced	37 19	120 30	64	2.04	1.38	1.59	1.00	.53	.14	.01	.02	.19	.47	1.31	1.57	10.25	32	
Fresno	36 43	119 49	330	1.57	1.36	1.53	1.08	.45	.12	.00	.01	.21	.56	1.19	1.49	9.57	26	
*Salinas	36 11	121 36	44	2.79	2.28	2.20	1.28	.46	.15	.00	.02	.17	.72	1.43	2.19	13.69	31	

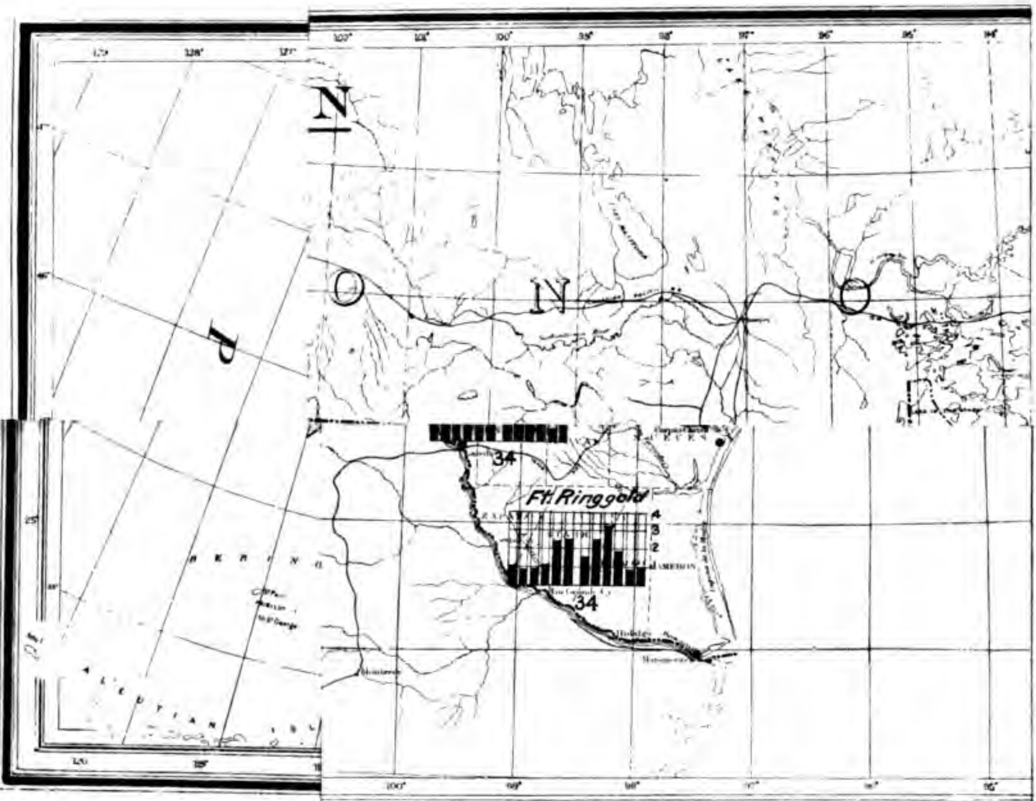
TABLE II.—*Average monthly and annual precipitation at selected representative stations in the arid region*—Continued.

Station.	Latitude.	Longitude.	Altitude.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Year.	Years of record.	Combined with—
California—Continued.	° ′	° ′	*Feet.*															
Keeler	36 35	117 50	3,622	0.25	0.37	0.23	0.23	0.12	0.06	0.09	0.24	0.18	0.17	0.29	0.30	2.53	19	
*San Luis Obispo	35 18	120 39	201	4.46	3.69	3.22	1.66	.42	.11	.00	.01	.17	1.14	1.88	3.83	20.59	34	
Caliente	35 17	118 41	1,290	1.50	1.88	1.89	1.47	.61	.11	.00	.01	.07	.42	.77	1.84	10.57	28	
Mojave	35 03	118 11	2,751	.83	.93	.65	.18	.04	.05	.07	.10	.06	.24	.39	1.13	4.66	28	
*Santa Barbara	34 25	119 40	100	3.61	3.13	2.33	1.26	.39	.10	.02	.00	.21	.82	1.62	3.02	16.51	36	
*San Bernardino	34 06	117 18	1,054	3.16	2.87	2.58	1.26	.61	.08	.04	.18	.13	.57	1.38	2.69	15.55	33	
*Los Angeles	34 03	118 15	338	3.41	3.17	2.47	1.01	.44	.07	.01	.07	.05	.75	1.50	2.88	15.83	32	
Indio	33 49	116 14	20	.80	.37	.20	.07	.02	.00	.01	.18	.10	.07	.19	.39	2.35	26	
Mammoth Tank	33 07	115 17	257	.17	.41	.19	.06	.02	.00	.05	.30	.05	.11	.13	.38	1.87	26	
*San Diego	32 43	117 10	87	1.72	1.90	1.35	.66	.35	.06	.07	.11	.07	.30	.95	1.87	9.41	54	

TABLE III.—*Altitude of highest station and number of stations 5,000 feet or above.*

State or Territory.	Altitude of highest.	Number 5,000 feet or above.	State or Territory.	Altitude of highest.	Number 5,000 feet or above.	State or Territory.	Altitude of highest.	Number 5,000 feet or above.
Arizona	6,950	9	Nebraska	4,697	0	Oregon	5,060	1
California	8,248	9	Nevada	8,132	18	South Dakota	5,000	1
Colorado	10,856	42	New Mexico	8,650	21	Texas	5,000	1
Idaho	6,700	10	North Dakota	2,453	0	Utah	7,474	37
Kansas	3,303	0	Oklahoma and Indian Territory	3,750	0	Washington	3,000	0
Montana	5,716	9				Wyoming	9,916	28

O



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W. B. No. 334.

U. S. DEPARTMENT OF AGRICULTURE.

WEATHER BUREAU.

BULLETIN O.

TEMPERATURE AND RELATIVE HUMIDITY DATA.

Prepared under the direction of WILLIS L. MOORE, Chief, U. S. Weather Bureau,

BY

WILLIAM B. STOCKMAN, Chief, Division of Meteorological Records.

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HIGHEST AND LOWEST TEMPERATURES.

The following table shows for each month of the year and for each Weather Bureau station that that have been observed from the beginning of observations until the end of 1904. The year

TABLE SHOWING THE HIGHEST TEMPERATURES (IN DEGREES FAHRENHEIT)

[Compiled from the beginning of obser-

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Abilene, Tex	19	83	1887	94	1904	93	1899	99	1887	105	1896	109	1886
Albany, N. Y	31	62	1889	63	1903	75	1894	88	1896	93	[1]1903	99	1901
Alpena, Mich	32	52	1880	59	1900	77	1894	83	1902	95	1895	97	1874
Amarillo, Tex	13	74	1903	84	1904	85	1893	90	1893	98	1896	105	1902
Atlanta, Ga	26	75	1890	78	1891	83	1895	89	[2]1903	94	1898	98	1895
Atlantic City, N. J	29	64	1890	71	1880	77	1894	84	1887	90	[1]1903	95	1887
Augusta, Ga	32	80	1890	84	1890	89	1882	93	[3]1896	100	1878	103	1887
Baker City, Oreg	15	51	1899	59	1898	66	1900	83	1898	88	[4]1903	97	1892
Baltimore, Md	32	73	1890	78	1874	82	[5]1894	94	1896	96	1896	99	1901
Binghamton, N. Y	8	58	1898	61	1903	74	1903	86	1902	89	1900	93	1901
Bismarck, N. Dak	30	52	1901	64	1895	72	1895	90	1900	94	1900	99	1883
Block Island, R. I	24	59	1885	58	1890	59	1891	71	1896	82	1895	86	1893
Boise, Idaho	27	62	1884	67	1896	77	1895	92	1898	100	1897	105	1898
Boston, Mass	34	70	1876	64	1890	72	1880	85	1872	97	1880	98	1874
Buffalo, N. Y	32	66	1874	64	1883	74	1903	84	1899	89	1889	93	1895
Cairo, Ill	33	73	1890	75	1890	84	1879	89	1872	92	[6]1902	98	1901
Cape Henry, Va	31	79	1898	80	1890	85	1898	96	1896	97	1889	102	1898
Cape May, N. J	26	58	1900	63	1893	79	1894	87	1896	93	1895	95	1895
Carson City, Nev	17	63	1902	68	1899	74	1901	82	1888	88	1889	93	1901
Cedar City, Utah	......	......	......	......	......	......	......	......	......	......	......	......	......
Charleston, S. C	32	80	1879	80	[7]1891	86	1897	89	1896	98	1898	100	1877
Charlotte, N. C	26	77	1890	79	1890	85	1894	94	1896	97	1895	102	1887
Chattanooga, Tenn	26	75	1898	78	1890	85	1895	90	1896	93	1898	100	1902
Cheyenne, Wyo	32	64	1888	63	[8]1904	77	1879	80	1874	88	1874	97	[9]1881
Chicago, Ill	32	65	1876	63	1876	80	1895	88	1899	94	1895	98	1872
Cincinnati, Ohio	34	71	1890	73	1883	84	1895	87	1896	94	[6]1875	98	1874
Cleveland, Ohio	33	70	1874	72	1883	76	[10]1903	87	1899	92	1879	96	1874
Columbia, Mo	15	74	1894	76	1896	85	1895	90	[11]1896	92	1902	104	1901
Columbia, S. C	17	78	1898	82	1890	90	1894	96	1896	101	1898	103	1899
Columbus, Ohio	26	67	1890	72	1883	79	1895	89	1896	96	1895	99	1895
Concordia, Kans	19	72	1894	79	1896	93	1895	100	1902	100	1895	104	1900
Corpus Christi, Tex	18	82	1892	88	1893	96	1901	92	1893	96	1887	97	1900
Davenport, Iowa	32	63	1897	67	1882	82	1895	87	[8]1901	90	[7]1902	98	1897
Denver, Colo	33	76	1888	77	1890	81	1879	85	1902	92	1874	99	1873
Des Moines, Iowa	26	64	1895	70	1896	88	1895	90	1898	94	1895	101	1886
Detroit, Mich	34	66	1890	64	1884	75	1875	85	1896	95	1895	96	1895
Dodge, Kans	30	74	1902	78	1876	90	1895	93	1893	101	1896	106	1893
Dubuque, Iowa	31	63	1897	67	1882	86	1895	88	1895	94	1874	99	1897
Duluth, Minn	32	51	1894	58	1895	64	1889	81	1891	91	1874	92	1883
Eastport, Me	32	54	1892	50	1900	54	[12]1902	72	1903	85	1896	88	1888
Elkins, W. Va	6	68	1903	74	1900	80	1904	88	1902	90	1900	92	1901
El Paso, Tex	26	77	1890	86	1904	89	1896	98	1879	105	1886	113	1883
Erie, Pa	31	73	1876	70	1900	78	1875	86	1883	91	1879	92	1894
Escanaba, Mich	29	49	1892	52	1877	58	1895	77	1899	84	1900	96	1890
Eureka, Cal	18	77	1888	72	1902	75	1901	75	1904	78	1890	85	1903
Evansville, Ind	8	68	1898	70	1898	80	1897	90	1899	92	1902	99	1901
Fort Smith, Ark	22	80	1890	82	1897	87	1895	94	1893	98	1886	101	1882
Fort Worth, Tex	6	85	1903	96	1904	97	1899	95	1904	95	1901	103	1902
Fresno, Cal	17	70	1904	83	1888	87	1900	101	1898	104	1892	112	1891
Galveston, Tex	33	75	[13]1882	76	[14]1904	85	1879	85	1878	91	1875	97	1875
Grand Haven, Mich	32	61	1890	59	1900	71	1878	84	1899	87	1895	92	1901
Grand Junction, Colo	12	56	1903	70	1904	78	1893	84	[15]1902	94	1896	104	1900
Greenbay, Wis	18	51	1897	59	1896	72	1903	84	1901	91	1895	96	1901
Hannibal, Mo	12	71	1894	69	1904	84	1895	89	1902	91	1902	100	1901
Harrisburg, Pa	16	67	1890	74	1890	76	1898	92	1896	95	1895	97	1901

[1] Also in 1900.
[2] Also in 1896.
[3] Also in 1885.
[4] Also in 1897.
[5] Also in 1890.
[6] Also in 1874.
[7] Also in 1887.
[8] Also in 1886.
[9] Also in 1880.
[10] Also in 1875.
[11] Also in 1894.
[12] Also in 1889.
[13] Also in 1876 and 1880.
[14] Also in 1892.
[15] Also in 1898.

has been in operation at least six years, the highest and the lowest temperatures, respectively, during which the observed extremes occurred is also given.

RECORDED AT WEATHER BUREAU STATIONS FOR EACH MONTH OF THE YEAR.

vations to the end of December, 1904.]

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Abilene, Tex	110	1886	104	1899	104	1893	94	1898	86	1893	81	1893
Albany, N. Y	100	1898	98	1900	97	1895	90	1900	71	1903	66	1889
Alpena, Mich	98	1901	95	1900	94	1897	87	1891	68	1904	56	1875
Amarillo, Tex	98	[1]1903	97	[2]1902	95	[3]1903	89	1898	82	1897	75	1894
Atlanta, Ga	100	1887	98	1900	97	1896	91	1884	82	1890	72	1889
Atlantic City, N. J	99	1880	98	1900	94	1897	86	1897	74	1900	68	1889
Augusta, Ga	105	1878	105	1878	101	1896	94	1884	85	1885	78	1889
Baker City, Oreg	101	1890	101	1898	93	1893	85	1890	65	[4]1903	54	1900
Baltimore, Md	104	1898	100	1900	101	1881	90	1897	79	1900	73	1873
Binghamton, N. Y	96	1901	96	1900	93	1898	87	1897	72	1902	65	1901
Bismarck, N. Dak	106	1901	105	[5]1900	102	1897	89	1897	73	[6]1904	64	1890
Block Island, R. I	88	1892	89	1900	86	1881	75	1881	70	1881	60	1884
Boise, Idaho	111	1898	106	1893	100	1888	91	1889	72	[7]1903	62	1888
Boston, Mass	101	1880	97	1900	102	1881	90	1881	75	1876	66	[8]1899
Buffalo, N. Y	95	1897	94	1887	95	1900	86	1898	70	1891	64	1901
Cairo, Ill	106	1901	103	1881	97	1899	90	1897	80	[9]1902	74	1889
Cape Henry, Va	101	[10]1902	103	1881	99	1900	89	1900	81	1883	76	1875
Cape May, N. J	94	1900	96	1900	95	1895	86	1884	73	1896	62	1895
Carson City, Nev	100	1889	100	1898	92	1904	85	1889	74	1901	67	[11]1903
Cedar City, Utah	......	......	......	......	......	......	......	......	......	......	......	......
Charleston, S. C	104	1879	100	1899	95	1899	93	1883	83	1899	78	1889
Charlotte, N. C	102	1887	100	1881	99	1896	92	1884	80	1879	76	1889
Chattanooga, Tenn	101	1879	101	1902	98	1896	91	1884	79	1890	73	1889
Cheyenne, Wyo	100	1881	96	1882	90	1895	83	1892	75	1891	64	[12]1904
Chicago, Ill	103	1901	98	1881	98	1899	87	1897	75	1888	68	1875
Cincinnati, Ohio	105	1901	101	1881	99	1899	94	1895	78	1895	72	1875
Cleveland, Ohio	97	1897	99	1881	98	1881	87	1879	74	1888	68	1875
Columbia, Mo	111	1901	105	1894	104	1893	95	1899	80	[4]1897	75	1890
Columbia, S. C	105	1899	106	1900	104	1896	92	1895	85	1900	77	1889
Columbus, Ohio	104	1901	98	1881	98	1899	90	1897	77	1895	67	1889
Concordia, Kans	106	1898	104	[13]1902	104	1895	93	1899	82	1891	72	1889
Corpus Christi, Tex	98	1894	98	1901	97	1900	91	1901	89	1900	86	1901
Davenport, Iowa	106	1901	98	1894	99	1899	90	1897	78	1888	65	1889
Denver, Colo	102	1874	105	1878	97	1899	90	1892	77	1897	74	1901
Des Moines, Iowa	109	1901	103	1881	99	1899	91	1899	76	1897	69	1889
Detroit, Mich	101	1887	99	1881	97	1874	88	1897	71	1903	65	1875
Dodge, Kans	108	1876	105	1902	101	1896	94	1889	84	1888	79	1894
Dubuque, Iowa	106	1901	100	1894	97	1895	89	1897	74	1896	67	1889
Duluth, Minn	99	1883	95	1888	94	1894	80	1886	70	1904	54	1891
Eastport, Me	93	1901	90	1893	89	1897	83	1898	64	[9]1903	54	1897
Elkins, W. Va	94	1901	91	1900	92	1900	87	1900	74	1902	66	1901
El Paso, Tex	112	1886	110	1884	104	1879	94	1879	85	1899	76	1889
Erie, Pa	94	1890	94	1887	92	[8]1887	87	1900	74	1888	70	1889
Escanaba, Mich	92	1900	94	1896	89	1895	78	1898	68	1903	48	1888
Eureka, Cal	73	1888	79	1894	82	1897	84	1897	81	1904	70	1891
Evansville, Ind	107	1901	100	1897	99	1897	93	1897	78	[14]1902	68	1897
Fort Smith, Ark	106	1901	107	1896	102	1896	95	1884	86	1882	79	1889
Fort Worth, Tex	105	1901	108	1901	102	1900	98	1898	85	[13]1903	82	1901
Fresno, Cal	114	1891	113	1898	111	1888	100	1887	84	1900	71	1895
Galveston, Tex	98	1901	98	1874	94	1900	91	1900	85	1886	77	1894
Grand Haven, Mich	94	1901	92	1881	92	1897	82	1899	72	1888	61	1877
Grand Junction, Colo	103	1901	103	1902	98	1899	86	1899	72	1903	66	1901
Greenbay, Wis	99	1901	98	1891	95	1895	84	1891	69	1903	51	1894
Hannibal, Mo	108	1901	100	1894	101	1899	91	[15]1899	77	1897	69	1896
Harrisburg, Pa	101	1898	98	1900	95	1897	88	1900	75	1895	66	1889

[1] Also in 1894.
[2] Also in 1892 and 1899.
[3] Also in 1893.
[4] Also in 1890.
[5] Also in 1876.
[6] Also in 1887 and 1903.
[7] Also in 1892.
[8] Also in 1881.
[9] Also in 1882.
[10] Also in 1875.
[11] Also in 1902.
[12] Also in 1885.
[13] Also in 1898.
[14] Also in 1900.
[15] Also in 1897.

TABLE SHOWING THE HIGHEST TEMPERATURES (IN DEGREES FAHRENHEIT) RECORDED

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Hatteras, N. C	24	73	1890	73	1890	75	[1]1904	80	1903	88	1881	91	1882
Havre, Mont	13	61	1900	60	1892	72	1895	83	1897	92	[2]1903	108	1900
Helena, Mont	25	63	1902	65	1895	72	1893	82	1891	89	1886	102	1900
Huron, S. Dak	23	64	1900	68	1896	79	1894	94	1887	96	1886	99	1898
Independence, Cal	8	69	1895	75	1899	78	1900	87	1898	89	[3]1903	101	1901
Indianapolis, Ind	31	70	1890	72	1883	82	1895	87	1896	96	1895	100	1895
Jacksonville, Fla	33	81	1898	86	1891	88	1896	92	1896	98	1878	100	1891
Jupiter, Fla	17	83	1898	87	1893	89	1900	89	1904	93	[4]1893	95	1890
Kansas City, Mo	16	68	1890	76	1896	88	1895	90	1893	90	[3]1902	100	1901
Keokuk, Iowa	33	69	1894	70	1891	84	1895	89	1902	92	[5]1902	100	1901
Key West, Fla	34	90	1877	87	1874	89	[6]1874	91	1881	93	1881	100	1886
Kittyhawk, N. C	30	73	1876	80	1890	82	1894	92	1888	94	1889	98	1888
Knoxville, Tenn	34	74	1876	72	1903	83	1895	90	1896	94	1877	99	[7]1902
La Crosse, Wis	32	59	1874	65	1882	78	1894	86	1895	96	1874	98	1901
Lander, Wyo	13	59	1903	64	1895	70	1895	78	1898	86	1901	95	1900
Lewiston, Idaho	10	59	1880	67	1901	78	1882	86	[8]1904	103	1903	99	1903
Lexington, Ky	17	71	1890	72	1891	83	1895	88	1896	92	1896	98	1888
Lincoln, Nebr	8	61	1899	64	1899	79	[9]1904	95	1902	92	1902	103	1901
Little Rock, Ark	25	78	1880	79	1904	87	1895	94	1880	94	1902	102	1894
Los Angeles, Cal	27	87	[10]1902	88	1901	99	1879	99	[11]1898	103	1896	105	1890
Louisville, Ky	32	72	1890	78	1887	86	1895	91	1894	94	1895	100	1895
Lynchburg, Va	32	77	1890	75	1874	86	1894	95	1896	97	1895	98	1887
Marquette, Mich	30	56	1880	69	1877	70	1878	87	1891	98	1895	98	1901
Memphis, Tenn	32	79	1890	79	1890	87	1895	90	1899	96	1879	100	1881
Meridian, Miss	15	79	1890	81	1904	86	1897	90	1899	96	1898	100	1897
Miles City, Mont	13	60	1900	68	1901	77	1895	90	1901	100	1901	107	1887
Milwaukee, Wis	34	59	1874	60	1882	75	1903	86	1899	92	1895	95	1890
Minneapolis, Minn	14	49	1891	64	1896	76	1894	86	1901	92	1895	96	1897
Mobile, Ala	34	78	1882	80	1887	85	1879	90	1883	98	1878	101	1894
Montgomery, Ala	32	79	1898	83	1891	87	1896	92	1899	98	1875	106	1881
Moorhead, Minn	24	46	1889	59	1896	68	1889	91	1891	96	1887	101	1893
Mount Tamalpais, Cal	...	...	...	...	...	...	...	...	...	...	...	...	...
Nantucket, Mass	18	57	1900	55	1890	59	1903	70	1896	86	1895	89	1895
Narragansett, R. I	23	63	[12]1904	65	1890	65	1893	84	1903	92	1896	92	1899
Nashville, Tenn	34	75	1890	77	1883	85	1895	90	1872	93	1895	99	1874
Neahbay, Wash	16	65	1896	60	1892	65	1885	69	1885	81	1895	78	1902
New Haven, Conn	32	65	1890	67	1890	69	1880	85	1896	93	1896	96	1893
New Orleans, La	34	82	1890	82	[12]1904	84	[13]1904	88	1889	94	1902	98	1897
New York, N. Y	33	67	1890	69	1890	72	1879	90	1896	95	1895	97	1899
Norfolk, Va	34	80	1871	82	1890	88	1894	95	1896	98	1880	102	1874
Northfield, Vt	18	61	1890	59	1903	75	1903	85	1899	90	1889	95	1901
North Platte, Nebr	30	70	1880	74	1896	86	1879	93	[14]1902	97	1895	102	1902
Oklahoma, Okla	14	78	1893	90	1904	90	1895	95	1893	94	1896	101	1893
Omaha, Nebr	32	63	1895	78	1896	85	1895	92	1902	97	1895	100	1901
Oswego, N. Y	34	64	1890	61	1880	72	1894	85	[15]1903	94	1879	98	1875
Palestine, Tex	23	81	1903	83	1904	88	[16]1904	92	1893	93	1896	100	1896
Parkersburg, W. Va	16	70	1890	76	1900	86	1894	93	1896	94	1895	99	1895
Pensacola, Fla	25	79	1890	78	1883	83	1884	92	1887	93	[17]1902	101	1894
Philadelphia, Pa	34	72	1890	75	1874	77	1894	93	1896	96	1880	98	1893
Phoenix, Ariz	23	87	1883	92	1887	97	1887	105	1882	113	1885	119	1883
Pierre, S. Dak	13	60	[2]1902	67	1896	84	1895	94	1901	98	1900	103	1893
Pittsburg, Pa	32	75	1874	77	1900	80	1876	90	1896	95	1887	98	1895
Port Crescent, Wash	10	59	1904	66	1901	67	1900	78	1900	85	1895	93	1896
Port Huron, Mich	30	64	1876	60	1890	74	1903	84	1896	93	1895	97	1899
Portland, Me	33	62	1890	58	1880	71	1894	78	[17]1903	94	1880	96	1888

[1] Also in 1894.
[2] Also in 1900.
[3] Also in 1895.
[4] Also in 1892.
[5] Also in 1874.
[6] Also in 1873.
[7] Also in 1898.
[8] Also in 1880.
[9] Also in 1901.
[10] Also in 1896.
[11] Also in 1888.
[12] Also in 1890.
[13] Also in 1899 and 1902.
[14] Also in 1887.
[15] Also in 1885.
[16] Also in 1899.
[17] Also in 1881.

AT WEATHER BUREAU STATIONS FOR EACH MONTH OF THE YEAR—Continued.

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Hatteras, N. C	92	[6]1902	92	1881	90	1881	90	1881	79	1882	73	1894
Havre, Mont	102	1893	103	1893	93	1893	85	1899	72	1894	63	[1]1903
Helena, Mont	103	1886	98	1893	91	1904	80	1889	71	1894	58	[1] 902
Huron, S. Dak	108	1894	108	1901	103	1895	94	1892	77	1893	65	1894
Independence, Cal	105	1898	104	1898	97	1903	88	1895	81	1898	70	1902
Indianapolis, Ind	106	1901	101	1881	98	1899	89	1897	76	1888	68	1875
Jacksonville, Fla	104	1879	101	1900	98	1875	92	[2]1904	86	1889	81	1875
Jupiter, Fla	95	[15]1895	96	1903	93	1903	94	[5]1904	87	1889	86	[7]1902
Kansas City, Mo	106	1901	103	1896	101	1893	91	1899	79	1897	70	1894
Keokuk, Iowa	108	1901	102	1873	99	1899	92	1897	79	1888	69	1889
Key West, Fla	100	1886	100	1886	97	1886	92	1876	91	1876	88	1876
Kittyhawk, N. C	107	1887	102	1888	97	1888	90	1881	80	1888	73	1894
Knoxville, Tenn	100	1887	100	1881	99	1899	94	1884	80	1881	75	1874
La Crosse, Wis	104	1901	101	1894	97	1895	88	1897	72	1893	61	1889
Lander, Wyo	99	1901	94	1902	90	1903	79	1896	72	1894	61	1903
Lewiston, Idaho	105	[8]1902	108	1903	94	[4]1904	84	[9]1904	69	1903	64	1901
Lexington, Ky	102	1901	99	1888	98	1899	88	1897	78	1895	68	1901
Lincoln, Nebr	106	1901	102	1901	101	1899	92	1899	76	1898	68	1900
Little Rock, Ark	106	1901	105	1896	100	1896	93	1897	82	1879	78	1889
Los Angeles, Cal	109	1891	106	1885	108	1885	102	1885	96	1890	89	1897
Louisville, Ky	107	1901	105	1881	102	1899	91	1897	79	[10]1902	74	1875
Lynchburg, Va	102	1881	100	1900	99	[3]1897	92	1897	81	1890	73	1889
Marquette, Mich	108	1901	98	1886	97	1874	87	1879	69	1886	59	1875
Memphis, Tenn	104	1901	102	1901	99	1887	92	1884	82	1879	76	1889
Meridian, Miss	104	1901	103	1897	98	1897	92	[3]1904	82	1896	78	1896
Miles City, Mont	111	1901	106	1900	99	1893	88	1897	76	1897	62	1903
Milwaukee, Wis	100	1901	98	1874	95	1897	88	1897	70	[11]1902	63	1877
Minneapolis, Minn	102	1901	99	1896	96	[10]1898	86	1897	73	1893	54	1890
Mobile, Ala	102	1901	101	1897	96	1887	95	1904	83	1888	79	1884
Montgomery, Ala	107	1881	103	1874	99	1887	96	1884	85	1896	79	1889
Moorhead, Minn	102	1894	100	1886	98	1894	90	1897	72	[12]1903	55	1883
Mount Tamalpais, Cal												
Nantucket, Mass	88	1902	86	1896	86	1895	75	1900	66	1899	59	1895
Narragansett, R. I	94	1903	94	1891	90	1898	82	1897	72	1882	59	1884
Nashville, Tenn	102	1901	104	1874	99	[12]1896	92	[13]1903	81	1882	75	1874
Neahbay, Wash	80	1886	88	1896	77	[14]1902	72	1895	62	1901	63	1888
New Haven, Conn	97	1898	98	1900	100	1881	86	1881	72	[1]1903	68	1889
New Orleans, La	102	1901	99	1897	96	1900	91	1897	85	1888	81	1894
New York, N. Y	99	1898	96	1888	100	1881	88	1881	74	1882	68	1891
Norfolk, Va	102	[17]1887	100	1900	100	1895	89	1884	80	[11]1902	75	1891
Northfield, Vt	95	1898	92	1899	90	1895	83	1892	70	1900	61	1895
North Platte, Nebr	107	1877	103	1878	101	[6]1895	90	1900	81	1887	70	1890
Oklahoma, Okla	104	1894	104	1896	101	1893	97	1898	86	1891	75	1896
Omaha, Nebr	106	1894	105	1874	102	1895	92	1899	80	1887	71	1890
Oswego, N. Y	100	1878	98	1883	93	1881	84	1891	71	1876	66	1901
Palestine, Tex	103	1894	104	1897	104	1896	97	1898	87	1888	81	1890
Parkersburg, W. Va	102	1901	97	1896	99	1897	90	1897	78	1895	72	1901
Pensacola, Fla	103	1901	97	[3]1902	96	1904	95	1884	81	1882	76	[15]1904
Philadelphia, Pa	103	1901	101	1900	102	1881	88	1897	77	1876	70	1873
Phoenix, Ariz	116	1893	116	1883	114	1883	105	1885	97	1884	95	1882
Pierre, S. Dak	108	[16]1902	110	1900	104	1899	98	1892	80	1891	67	1894
Pittsburg, Pa	103	1881	100	1881	102	1881	91	1879	79	1876	73	1885
Port Crescent, Wash	90	1895	93	1894	82	1899	75	1901	64	1895	60	1899
Port Huron, Mich	99	1887	99	1891	97	1881	87	1897	70	1903	65	1875
Portland, Me	97	1898	95	1876	94	1881	84	1897	69	1895	60	1885

[1] Also in 1900.
[2] Also in 1883.
[3] Also in 1897.
[4] Also in 1883 and 1902.
[5] Also in 1893.
[6] Also in 1881.
[7] Also in 1891.
[8] Also in 1882.
[9] Also in 1880.
[10] Also in 1895.
[11] Also in 1888.
[12] Also in 1887.
[13] Also in 1884.
[14] Also in 1898.
[15] Also in 1889.
[16] Also in 1901.
[17] Also in 1876.

TABLE SHOWING THE HIGHEST TEMPERATURES (IN DEGREES FAHRENHEIT) RECORDED

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Portland, Oreg	32	62	1888	68	1901	79	1886	89	1897	99	1887	99	[1] 1904
Pueblo, Colo	16	71	1892	74	1904	82	1893	86	1902	93	1895	103	1901
Raleigh, N. C	18	76	1890	80	1890	89	1894	95	1896	98	1895	102	1887
Rapid City, S. Dak	19	69	1892	72	1895	78	1893	89	1901	92	1900	103	1893
Redbluff, Cal	27	77	1899	82	1888	86	1892	96	1898	110	1887	110	1891
Richmond, Va	7	70	1898	72	1903	82	1898	90	[2] 1902	94	1900	99	1899
Rochester, N. Y	33	69	1874	65	1890	77	1894	90	1885	93	1895	95	1894
Roseburg, Oreg	27	71	1888	74	1902	81	1887	93	1904	102	1887	101	1903
Sacramento, Cal	27	72	1899	80	1899	80	1882	89	1898	98	1885	106	1891
St. Louis, Mo	34	74	1890	78	1890	85	1895	91	1899	94	1895	102	1901
St. Paul, Minn	32	51	1900	61	1896	76	1894	87	1902	94	1874	96	1901
Salt Lake City, Utah	31	57	1900	68	1879	77	1879	84	1889	93	1887	101	1900
San Antonio, Tex	26	82	1898	90	1886	97	1899	99	1894	104	1879	103	1883
San Diego, Cal	33	83	1904	85	1889	99	1879	93	[9] 1899	98	1896	94	1877
Sandusky, Ohio	27	69	1890	70	1883	77	1903	89	1899	93	1895	96	1885
San Francisco, Cal	34	78	1899	76	1888	80	1892	88	1888	97	1887	100	1891
San Luis Obispo, Cal	11	83	1902	86	1899	90	1901	97	1898	98	1896	105	1901
Santa Fe, N. Mex	31	76	1879	75	1879	82	1879	84	1879	89	1872	92	1881
Sault Ste. Marie, Mich	16	44	1897	46	1895	57	1894	77	1900	89	1895	93	1901
Savannah, Ga	34	80	1879	84	1891	88	1894	90	1896	101	1898	100	1880
Seattle, Wash	12	61	1896	67	1898	81	1892	85	1897	90	1897	96	1903
Shreveport, La	32	80	[3] 1903	81	[4] 1904	90	1882	96	1887	101	1886	104	1875
Sioux City, Iowa	15	63	1896	75	1896	83	1895	93	1891	95	1895	100	1894
Spokane, Wash	24	55	1893	59	1896	74	1881	86	1887	95	1897	96	1896
Springfield, Ill	25	68	1890	72	1882	84	1895	88	1899	92	1895	98	1901
Springfield, Mo	19	74	1890	76	[5] 1904	86	1895	89	1899	90	1883	98	1882
Tacoma, Wash	8	61	1900	65	1902	74	1900	82	1904	88	1897	97	1903
Tampa, Fla	14	82	1901	86	1891	88	[4] 1904	90	1890	94	1904	95	[3] 1904
Toledo, Ohio	34	71	1890	67	1900	76	1903	88	1899	93	1895	99	1872
Topeka, Kans	17	70	1894	78	1896	91	1895	97	1893	94	1895	101	1900
Valentine, Nebr	18	68	1892	68	1904	81	1889	91	1902	95	1886	102	[7] 1900
Vicksburg, Miss	32	82	1890	83	1883	87	1900	92	1887	95	1876	101	1881
Walla Walla, Wash	19	67	1902	69	1901	74	1892	89	1890	100	1897	105	1896
Washington, D. C	34	76	1890	78	1874	83	1894	93	1896	96	1880	102	1874
Wichita, Kans	16	72	1894	79	1904	91	1895	98	1893	96	1896	104	1900
Williston, N. Dak	11	52	1900	56	1895	71	1895	91	1901	101	1900	102	1900
Wilmington, N. C	34	80	1890	81	1880	87	1894	90	1880	97	1889	100	1880
Winnemucca, Nev	26	59	1903	69	1879	82	1879	83	1888	96	1887	98	1887
Yankton, S. Dak	32	67	1880	75	1896	87	1879	92	1891	95	[8] 1895	102	1894
Yuma, Ariz	29	81	1896	91	1896	100	1879	107	1898	112	1896	117	1896

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[1] Also in 1876.
[2] Also in 1899.
[3] Also in 1898.
[4] Also in 1897.
[5] Also in 1890.
[6] Also in 1903.
[7] Also in 1893.
[8] Also in 1886.
[9] Also in 1888.

AT WEATHER BUREAU STATIONS FOR EACH MONTH OF THE YEAR—Continued.

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Portland, Oreg	102	1891	97	[1] 1902	93	1886	83	1891	73	1890	65	1886
Pueblo, Colo	103	1888	104	1902	98	1899	88	1899	81	1896	74	1896
Raleigh, N. C	103	1887	99	[2] 1903	100	1899	89	1897	82	1900	75	1889
Rapid City, S. Dak	102	[3] 1902	106	1900	100	1895	96	1892	79	1894	75	1890
Redbluff, Cal	115	1902	114	1891	108	1902	97	1892	88	1890	76	1893
Richmond, Va	99	1900	102	1900	100	1899	90	1897	82	1900	69	1898
Rochester, N. Y	99	1897	97	1893	98	1881	87	1900	73	1888	70	1875
Roseburg, Oreg	102	1891	104	1894	99	1888	91	1885	76	1903	68	1902
Sacramento, Cal	107	1902	110	1898	106	1888	98	1885	81	1898	69	1893
St. Louis, Mo	107	1901	106	1881	102	1899	91	1897	82	1879	74	1875
St. Paul, Minn	104	1901	100	1896	96	1895	87	1879	74	1893	58	1888
Salt Lake City, Utah	102	1889	101	1875	93	1875	86	1889	74	1898	61	1874
San Antonio, Tex	106	1894	108	1877	103	1893	99	1877	89	1898	86	1890
San Diego, Cal	88	1891	92	1884	101	1883	94	1904	93	1904	82	[1] 1893
Sandusky, Ohio	100	1897	98	1891	96	1881	90	1891	76	1888	70	1889
San Francisco, Cal	93	1888	92	1891	101	1904	94	1899	83	1895	72	1901
San Luis Obispo, Cal	99	1896	106	1900	106	1904	98	1898	94	1898	84	1900
Santa Fe, N. Mex	96	1878	97	1878	90	1879	85	1878	77	1878	65	1878
Sault Ste. Marie, Mich	94	1894	90	1893	91	1897	80	1900	67	1898	48	1891
Savannah, Ga	105	1879	102	1900	97	1893	92	1884	83	1896	80	1875
Seattle, Wash	95	1902	92	1898	87	1898	81	1899	64	1899	62	1900
Shreveport, La	107	1875	106	1896	101	1899	95	1883	86	[8] 1896	79	1896
Sioux City, Iowa	107	1894	102	[5] 1901	103	1895	90	1892	74	1890	68	1890
Spokane, Wash	102	1890	104	1898	98	1888	86	1889	70	1903	57	1886
Springfield, Ill	107	1901	99	1886	99	1899	91	1897	77	1887	67	1889
Springfield, Mo	106	1901	100	1896	102	1893	90	1897	79	1888	74	1889
Tacoma, Wash	94	1902	92	1898	86	1904	80	1899	64	1899	61	1900
Tampa, Fla	96	1902	95	[6] 1903	94	1893	93	1894	87	1892	83	1891
Toledo, Ohio	99	1887	102	1871	95	1881	90	1897	74	1888	70	1889
Topeka, Kans	106	1901	105	1901	104	1893	93	1899	83	1891	74	1889
Valentine, Nebr	106	[7] 1902	103	1901	102	1904	94	1899	80	1888	72	1904
Vicksburg, Miss	100	1901	100	1878	98	1881	94	1884	86	1896	79	1889
Walla Walla, Wash	108	1891	113	1898	100	1888	87	1904	76	1891	65	1890
Washington, D. C	103	1887	101	1900	104	1881	92	1881	80	1879	73	1873
Wichita, Kans	105	1903	106	1896	104	1893	95	1898	83	1891	74	1894
Williston, N. Dak	102	1900	104	1900	99	1901	93	1897	71	1904	49	1897
Wilmington, N. C	103	1879	99	1878	96	1872	92	1884	83	1877	78	1879
Winnemucca, Nev	104	1877	102	1882	94	1880	87	1889	73	1891	65	1878
Yankton, S. Dak	107	1894	105	1901	104	1895	90	1904	79	1888	67	1890
Yuma, Ariz	118	1878	115	1879	113	1879	108	1887	92	1891	83	1901

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[1] Also in 1891.
[2] Also in 1896.
[3] Also in 1881.
[4] Also in 1891.
[5] Also in 1894.
[6] Also in 1895.
[7] Also in 1889.
[8] Also in 1882.

TABLE SHOWING THE LOWEST TEMPERATURES (IN DEGREES FAHRENHEIT) RECORDED

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Abilene, Tex	19	−5	1888	−6	1899	17	1891	25	1886	36	1903	48	1892
Albany, N. Y	31	−24	1904	−18	1875	−8	1900	13	1874	29	1876	40	1878
Alpena, Mich	32	−27	1882	−27	1881	−19	1884	−2	1881	22	1883	34	1881
Amarillo, Tex	13	−4	[1] 1902	−16	1899	−2	1903	22	1900	30	1893	42	1892
Astoria, Oreg	......	......	......	......	......	......	......	......	......	......	......	......	......
Atlanta, Ga	26	−2	1886	−8	1899	8	1899	25	1881	38	1898	39[4]	1889
Atlantic City, N. J	29	−4	1893	−7	1899	8	1884	19	1875	33	1880	45	1878
Augusta, Ga	32	6	1886	3	1899	14	1899	29	1887	41	1894	46	1889
Baker City, Oreg	15	−14	1890	−20	1899	−6	1891	18	1890	24	1891	27	1892
Baltimore, Md	32	−6	1881	−7	1899	5	1873	23	1875	34	1876	47	1894
Binghamton, N. Y	8	−26	1904	−15	1899	−11	1900	17	1898	23	1903	38	1899
Bismarck, N. Dak	30	−44	1887	−43	1887	−36	1897	−3	1899	20	1888	31	1888
Block Island, R. I	24	−4	1896	−4	1895	6	1886	25	1887	31	1900	45	1902
Boise, Idaho	27	−28	1888	−12	1883	7	1897	18	1883	26	1887	30	1901
Boston, Mass	34	−13	1882	−11	1896	−8	1872	11	1874	31	1882	42	1884
Buffalo, N. Y	32	−14	1884	−13	1895	−4	1885	11	1881	28	1891	39	1891
Cairo, Ill	33	−16	1884	−14	1899	6	1899	24	1875	37	1875	46	1889
Cape Henry, Va	31	6	1893	5	1899	12	1883	28	1875	41	1876	48	1887
Cape May, N. J	26	−7	1893	−3	1899	10	1873	24	1894	37	1876	46	1897
Carson City, Nev	17	−22	1890	−14	1897	10	[4] 1904	16	[1] 1903	22	1894	27	1894
Cedar City, Utah	......	......	......	......	......	......	......	......	......	......	......	......	......
Charleston, S. C	32	10	1886	7	1899	21	1902	32	[2] 1902	45	1894	51	1889
Charlotte, N. C	26	−1	1886	−5	1899	14	1899	26	1891	38	1889	45	1889
Chattanooga, Tenn	26	−7	1886	−10	1899	2	1899	25	1881	40	[3] 1890	39	1889
Cheyenne, Wyo	32	−38	1875	−28	1899	−17	1880	2	1875	20	1893	28	1876
Chicago, Ill	32	20	1897	−21	1899	−12	1873	17	1881	27	1875	40	1894
Cincinnati, Ohio	34	−12	1886	−17	1899	1	1873	18	1875	33	1897	39	1889
Cleveland, Ohio	33	−17	1873	−16	1899	−4	1885	15	1875	28	1876	38	1894
Columbia, Mo	15	−16	1894	−26	1899	−6	1890	18	1899	30	1903	42	[4] 1903
Columbia, S. C	17	10	1897	−2	1899	20	1899	28	1891	40	1894	47	1889
Columbus, Ohio	26	−20	1884	−20	1899	0	1900	15	1881	33	1897	41	1894
Concordia, Kans	19	−25	1888	−25	1899	−2	[5] 1895	18	1886	30	1893	43	[6] 1903
Corpus Christi, Tex	18	16	1888	11	1899	28	1890	44	1899	44	1888	59	1903
Davenport, Iowa	32	−27	1884	−23	1899	−8	1890	14	1886	29	1875	39	1889
Denver, Colo	33	−29	1875	−22	1883	−11	1886	4	1876	27	1873	36	1892
Des Moines, Iowa	26	−30	1884	−24	1899	−8	1890	11	1881	28	1885	37	1889
Detroit, Mich	34	−16	1897	−20	1875	−7	1872	8	1875	28	1903	38	1875
Dodge, Kans	30	−20	1883	−26	1899	−9	1903	13	1881	24	1893	40	1879
Dubuque, Iowa	31	−32	1887	−31	1875	−12	1890	14	1886	26	1885	39	1901
Duluth, Minn	32	−41	1885	−36	1899	−26	1875	3	1881	25	1888	33	1885
Eastport, Me	32	−20	1874	−20	1876	−8	1886	2	1874	28	1903	30	1875
Elkins, W. Va	6	−18	1899	−21	1899	0	1901	14	1903	25	1900	36	1902
El Paso, Tex	26	5	1881	5	1899	21	1880	29	1882	40	1884	49	1901
Erie, Pa	31	−15	1875	−16	1875	−1	1886	11	1881	31	1874	40	1894
Escanaba, Mich	29	−29	1888	−32	1875	−27	1884	0	1886	20	1888	29	1897
Eureka, Cal	18	20	1888	24	1899	29	1896	31	1895	35	1887	40	1899
Evansville, Ind	8	−2	1904	−15	1899	4	1899	26	1899	35	1903	44	1903
Fort Smith, Ark	22	−7	1894	−15	1899	14	1893	28	1891	40	1889	49	1894
Fort Worth, Tex	6	12	[3] 1900	−8	1899	23	1900	31	1899	47	1901	48	1903
Fresno, Cal	17	20	1888	24	1899	28	1888	34	1895	38	1899	45	1902
Galveston, Tex	33	11	1886	8	1899	30	1890	43	1886	54	1892	57	1903
Grand Haven, Mich	32	−12	1873	−25	1899	−5	1885	9	1874	28	1875	37	1897
Grand Junction, Colo	12	−16	1898	−15	1903	7	1903	16	1901	30	1899	37	1894
Greenbay, Wis	18	−36	1888	−33	1899	−23	1890	11	1896	26	1891	34	1897
Hannibal, Mo	12	−15	1904	−20	1899	3	1899	19	1899	30	1903	43	1903

[1] Also in 1895.
[2] Also in 1881.
[3] Also in 1888.
[4] Also in 1897.
[5] Also in 1891.
[6] Also in 1892.

at Weather Bureau Stations for each Month of the Year.

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Abilene, Tex	61	1897	55	[1]1893	42	1896	30	1898	13	1887	1	1898
Albany, N. Y	48	1876	45	1875	32	1904	23	1876	−10	1875	−17	1875
Alpena, Mich	40	1891	38	1904	28	1896	15	1887	− 4	1880	−15	1880
Amarillo, Tex	52	1903	52	1896	37	1898	26	1898	8	1896	− 1	1898
Astoria, Oreg	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Atlanta, Ga	58	[2]1886	55	1891	43	1899	30	1887	16	1887	1	1880
Atlantic City, N. J	52	1890	48	1890	37	1888	29	1879	10	1875	− 7	1880
Augusta, Ga	56	1899	58	1896	41	1888	29	1873	22	1903	7	1880
Baker City, Oreg	36	1895	35	1902	24	1890	18	1899	− 8	1896	− 6	1891
Baltimore, Md	55	1891	51	1890	39	1888	30	1879	15	1880	− 3	1880
Binghamton, N. Y	40	1898	41	1904	27	1904	19	1904	11	1897	−12	1903
Bismarck, N. Dak	32	1884	32	1895	10	1876	− 2	1895	−28	1875	−38	1879
Block Island, R. I	52	1895	49	1899	38	1904	30	1904	14	1901	− 3	1884
Boise, Idaho	40	1883	32	1892	28	1889	16	1887	−10	1896	− 7	1884
Boston, Mass	46	1874	47	1880	34	1879	25	1879	− 2	1875	−12	1883
Buffalo, N. Y	47	1898	44	1880	35	1878	24	1887	2	1875	− 9	1880
Cairo, Ill	57	1891	52	1891	36	1899	24	1873	7	1872	− 7	1872
Cape Henry, Va	56	1895	57	1888	50	1889	35	1891	24	1901	7	1880
Cape May, N. J	51	1892	53	1904	38	1904	30	1904	14	1875	4	1871
Carson City, Nev	35	1903	34	1895	18	1895	17	1900	7	1896	− 7	1889
Cedar City, Utah	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Charleston, S. C	64	1894	62	[3]1904	49	1887	39	1873	26	1903	13	1880
Charlotte, N. C	55	1891	53	1887	38	1888	30	1879	18	[4]1903	− 5	1880
Chattanooga, Tenn	56	1885	54	1891	38	1888	27	1893	16	1887	− 3	1880
Cheyenne, Wyo	37	1904	30	1892	19	1896	− 5	1878	−20	1875	−24	1880
Chicago, Ill	50	1895	47	1872	32	1899	14	1887	− 2	1872	−23	1872
Cincinnati, Ohio	53	1885	51	[5]1890	35	1888	26	1887	5	1880	− 8	1872
Cleveland, Ohio	48	1895	46	1890	36	[6]1904	24	1887	0	1880	−12	1880
Columbia, Mo	45	1892	42	1891	26	1895	19	1895	5	1891	−12	1898
Columbia, S. C	54	1892	56	[1]1904	42	1888	32	1891	21	1892	9	1894
Columbus, Ohio	50	1890	42	1887	32	1888	20	1887	− 5	1880	−12	1880
Concordia, Kans	46	1895	41	1891	29	1895	20	[7]1898	−15	1887	−10	1887
Corpus Christi, Tex	68	1903	65	1891	54	1903	42	1894	30	1896	20	1901
Davenport, Iowa	49	1891	44	1884	28	1899	17	1887	−10	1891	−22	1886
Denver, Colo	42	1873	40	1904	27	1895	1	1873	−18	1877	−25	1876
Des Moines, Iowa	48	1895	40	1891	26	1899	14	1887	−10	1891	−20	1886
Detroit, Mich	48	1895	45	1875	30	1899	22	1873	0	1880	−24	1872
Dodge, Kans	50	[8]1903	46	1891	30	1895	10	1878	−13	1887	−15	1876
Dubuque, Iowa	40	1895	41	1875	24	1899	15	1887	−12	1887	−24	1886
Duluth, Minn	45	1895	40	1886	29	1899	8	1878	−29	1875	−34	1879
Eastport, Me	45	[2]1903	45	1880	30	1904	23	1904	−13	1875	−21	1884
Elkins, W. Va	44	1903	42	[9]1904	26	1899	20	1903	5	1903	− 6	1901
El Paso, Tex	56	1880	52	1880	42	1880	28	1882	11	1880	− 5	1880
Erie, Pa	47	1891	47	1887	36	1894	23	1895	6	1880	−11	1880
Escanaba, Mich	41	1898	34	1891	24	1893	11	1887	− 9	1880	−23	1880
Eureka, Cal	43	1887	45	1890	36	1895	38	1893	27	1896	30	1895
Evansville, Ind	56	1897	54	1897	33	1899	32	1898	14	1898	− 6	1901
Fort Smith, Ark	56	1891	45	1891	37	1895	28	1894	17	1887	2	1892
Fort Worth, Tex	63	1901	65	1900	44	1903	31	1898	20	1903	9	1901
Fresno, Cal	50	1901	51	1895	44	1895	36	1892	27	1898	23	1897
Galveston, Tex	67	[6]1903	68	[10]1904	56	1890	44	1898	29	1880	18	1880
Grand Haven, Mich	40	1873	42	1890	30	1889	20	1887	0	1880	−12	1884
Grand Junction, Colo	48	1903	48	1900	32	[7]1903	26	1900	7	1896	−11	1898
Greenbay, Wis	43	1895	40	1888	25	1899	8	1887	−12	1887	−21	1886
Hannibal. Mo	47	1892	47	1893	32	1899	22	1895	4	1898	−18	1901

[1] Also in 1891.
[2] Also in 1882.
[3] Also in 1879.
[4] Also in 1880.
[5] Also in 1885.
[6] Also in 1887.
[7] Also in 1895.
[8] Also in 1877.
[9] Also in 1900.
[10] Also in 1899.

Table Showing the Lowest Temperatures (in Degrees Fahrenheit) Recorded

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Harrisburg, Pa	16	−5	1904	−13	1899	5	1900	22	1898	34	1903	43	1891
Hatteras, N. C	24	14	1886	11	1895	25	1902	31	1881	47	1882	56	1898
Havre, Mont	13	−43	1893	−55	1887	−41	1897	−11	1899	15	1899	31	1901
Helena, Mont	25	−42	1893	−41	1893	−20	1891	6	1896	22	1885	31	1880
Huron, S. Dak	23	−43	1887	−37	1899	−25	1897	7	1899	22	1889	31	1894
Independence, Cal	8	10	1902	11	1899	19	1898	28	1895	34	1901	38	1898
Indianapolis, Ind	31	−25	1884	−18	1899	0	1899	19	1875	31	1877	39	1894
Jacksonville, Fla	33	15	1886	10	1899	26	1899	34	1891	46	1894	54	1889
Jupiter, Fla	17	31	1898	27	1895	33	1890	39	1891	53	1898	64	1889
Kansas City, Mo	16	−17	1892	−22	1899	2	1891	22	1899	36	[1]1903	48	[2]1903
Keokuk, Iowa	33	−24	1884	−22	1895	−6	1890	14	1899	29	1875	43	1889
Key West, Fla	34	41	1886	44	1899	48	1890	54	1891	63	1877	69	[3]1903
Kittyhawk, N. C	30	9	1884	5	1886	20	1876	29	1898	42	1877	52	1884
Knoxville, Tenn	34	−16	1884	−10	1899	5	1899	24	1881	34	1894	42	1903
La Crosse, Wis	32	−43	1873	−34	1875	−23	1873	10	1881	29	1875	33	1897
Lander, Wyo	13	−36	1901	−35	1899	−22	1896	2	1893	13	1903	26	1899
Lewiston, Idaho	10	−14	1883	−18	1884	12	1880	27	1903	35	[4]1903	39	1901
Lexington, Ky	17	−12	1895	−20	1899	1	1899	22	[5]1902	32	1894	42	1903
Lincoln, Nebr	8	−14	[6]1904	−26	1899	−5	1897	17	1899	34	[7]1903	43	1902
Little Rock, Ark	25	−5	1886	−12	1899	16	1893	28	1886	39	1903	51	1889
Los Angeles, Cal	27	30	1883	28	1883	31	1893	36	1901	40	1883	46	1894
Louisville, Ky	32	−20	1884	−14	1899	3	1899	21	1875	33	1898	44	[8]1903
Lynchburg, Va	32	−6	1893	−3	1899	14	1899	25	1881	34	1891	45	1889
Marquette, Mich	30	−26	1881	−27	1875	−16	1884	3	1875	22	1875	31	1881
Memphis, Tenn	32	−8	1886	−9	1899	15	1899	27	1881	40	1903	50	1889
Meridian, Miss	15	12	1894	−6	1899	17	1892	28	1891	41	1890	46	1894
Miles City, Mont	13	−45	1892	−49	1899	−26	1897	−7	1899	24	1892	35	1895
Milwaukee, Wis	34	−25	1875	−24	1885	−8	1884	12	1886	25	1875	38	1894
Minneapolis, Minn	14	−33	1904	−33	1899	−12	1899	12	1899	28	1891	36	1897
Mobile, Ala	34	11	1886	−1	1899	25	1890	32	1881	46	1889	50	1889
Montgomery, Ala	32	5	1886	−5	1899	21	1890	30	1881	43	1898	48	1889
Moorhead, Minn	24	−48	1887	−47	1888	−32	1897	−13	1881	14	1890	28	1888
Mount Tamalpais, Cal	......	......	......	......	......	......	......	......	......	......	......	......	......
Nantucket, Mass	18	−4	1888	−1	1896	6	1887	22	1894	35	1901	43	1888
Narragansett, R. I	23	−11	1896	−12	1896	3	1890	12	1894	28	1891	40	[9]1903
Nashville, Tenn	34	−10	1884	−13	1899	3	1899	26	1881	37	1888	42	1894
Neahbay, Wash	16	8	1893	5	1893	22	1891	27	1896	33	[10]1894	36	1891
New Haven, Conn	32	−14	1873	−11	1896	0	1885	16	1874	30	1882	41	1884
New Orleans, La	34	15	1886	7	1899	30	1890	38	1881	52	1903	58	1889
New York, N. Y	33	−6	1875	−6	1899	3	1872	20	1874	34	1880	47	1878
Norfolk, Va	34	6	1893	2	1895	14	1888	24	1880	38	1876	49	1894
Northfield, Vt	18	−32	1904	−32	1889	−18	1897	−1	1887	18	1903	30	1891
North Platte, Nebr	30	−35	1888	−35	1899	−21	1880	12	1875	25	1889	33	1876
Oklahoma, Okla	14	−11	1892	−17	1899	9	1892	22	1891	38	1893	48	1903
Omaha, Nebr	32	−32	1884	−26	1899	−7	1880	6	1881	28	1875	42	1877
Oswego, N. Y	34	[11]−23	1885	−18	1896	−11	1872	13	1874	27	1902	39	1885
Palestine, Tex	23	0	1886	−6	1899	20	1890	36	1886	39	1903	48	1903
Parkersburg, W. Va	16	−11	1893	−27	1899	4	1890	20	1898	31	1900	42	1889
Pensacola, Fla	25	15	1886	7	1899	25	1890	34	1881	44	1898	55	1889
Philadelphia, Pa	34	−5	1875	−6	1899	6	1885	18	1874	36	[9]1903	47	1884
Phoenix, Ariz	20	12	1886	19	1884	24	1886	30	1883	35	1885	33	1885
Pierre, S. Dak	13	−39	1883	−39	1899	−15	1897	5	1899	30	1895	38	1902
Pittsburg, Pa	32	−12	1879	−20	1899	1	1900	14	1875	27	1876	39	1879
Port Crescent, Wash	10	9	1899	8	1893	20	1896	24	1896	31	[12]1904	35	[13]1902
Port Huron, Mich	30	−15	1883	−25	1885	−14	1885	7	1875	26	[14]1903	35	1894

[1] Also in 1890.
[2] Also in 1897.
[3] Also in 1887.
[4] Also in 1881.
[5] Also in 1898.
[6] Also in 1899.
[7] Also in 1900.
[8] Also in 1889.
[9] Also in 1891.
[10] Also in 1886 and 1891.
[11] Estimated.
[12] Also in 1894.
[13] Also in 1895.
[14] Also in 1882.

AT WEATHER BUREAU STATIONS FOR EACH MONTH OF THE YEAR—Continued.

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Harrisburg, Pa	50	1890	50	1896	36	1888	28	1893	14	1891	4	1894
Hatteras, N. C	61	1885	62	1888	50	1888	42	1887	27	1903	8	1880
Havre, Mont	31	1892	34	1895	18	1895	2	1899	−33	1896	−43	1897
Helena, Mont	36	1898	34	1880	20	1900	3	1887	−22	1896	−40	1880
Huron, S. Dak	41	1891	33	1886	18	1899	3	1895	−28	1887	−34	1884
Independence, Cal	49	[4]1902	46	1895	34	1895	29	1900	24	1895	15	1900
Indianapolis, Ind	48	1885	46	1890	30	1899	22	1895	− 5	1880	−15	1876
Jacksonville, Fla	66	[1]1892	64	[2]1890	49	1897	40	1873	26	1887	14	1894
Jupiter, Fla	68	[3]1904	68	[2]1904	61	1897	48	1890	42	1901	24	1894
Kansas City, Mo	54	1891	46	[1]1895	35	1899	26	1895	4	1896	−13	1892
Keokuk, Iowa	50	1892	47	1891	30	1899	20	1895	− 3	1872	−22	1872
Key West, Fla	68	1888	68	1894	69	1893	59	1892	51	1903	44	1876
Kittyhawk, N. C	58	1899	58	1888	39	1888	38	1876	23	1879	8	1880
Knoxville, Tenn	52	1885	50	1879	35	1888	25	1876	12	1872	− 5	1880
La Crosse, Wis	46	1895	39	1891	24	1899	6	1887	−21	1875	−37	1872
Lander, Wyo	34	1903	33	1899	7	1895	10	[3]1896	−31	1896	−29	1900
Lewiston, Idaho	47	[5]1902	45	1882	34	1883	28	1881	4	1900	−16	1879
Lexington, Ky	51	1891	51	1890	32	1899	23	1895	6	1887	− 8	1901
Lincoln, Nebr	53	1897	48	[6]1902	27	1899	24	1898	− 2	1898	−18	1897
Little Rock, Ark	60	1894	52	1891	41	1896	32	1898	10	1880	6	1880
Los Angeles, Cal	49	1888	49	1901	44	1880	40	1892	34	1881	30	1879
Louisville, Ky	54	1895	52	1885	36	1888	26	1887	4	1872	− 7	1880
Lynchburg, Va	53	1899	47	1890	35	1888	28	[7]1904	13	1880	− 5	1880
Marquette, Mich	38	1886	33	1885	28	1883	12	1887	− 9	1875	−20	1880
Memphis, Tenn	58	1891	53	1891	41	1896	27	1895	16	1880	3	1880
Meridian, Miss	58	[6]1904	49	1891	49	1899	29	1891	18	1894	9	1894
Miles City, Mont	42	1895	39	1893	22	1895	14	1895	−26	1897	−31	1897
Milwaukee, Wis	47	1895	42	1875	30	1899	15	1887	−14	1875	−22	1884
Minneapolis, Minn	44	1891	42	1891	29	1899	16	1895	−13	1891	−27	1901
Mobile, Ala	64	1882	57	1891	49	1896	34	1873	25	1887	14	1880
Montgomery, Ala	61	1898	58	1891	45	1899	31	1873	21	1872	8	1880
Moorhead, Minn	39	1889	32	1886	17	1883	3	1895	−26	1896	−36	1887
Mount Tamalpais, Cal	......	......	......	......	......	......	......	......	......	......	......	......
Nantucket, Mass	48	1891	53	1887	41	1888	34	1903	15	1901	− 1	1902
Narragansett, R. I	42	1892	41	1902	32	[8]1904	24	1903	6	1897	− 9	1884
Nashville, Tenn	56	1891	51	1891	38	1899	27	1887	10	1887	− 2	1901
Neahbay, Wash	39	1888	40	1895	36	1887	27	1893	25	1887	18	1884
New Haven, Conn	49	1891	45	1885	32	1888	24	1879	2	1875	−10	1884
New Orleans, La	67	1892	63	1891	55	1901	40	1873	29	1903	20	1880
New York, N. Y	50	1873	51	1885	36	1872	31	1876	7	1875	− 6	1880
Norfolk, Va	57	1892	56	1888	40	1888	31	1876	20	1872	6	1880
Northfield, Vt	34	1898	33	1894	24	[5]1903	12	1889	−14	1891	−24	1898
North Platte, Nebr	42	1889	40	1893	21	1876	9	1887	−25	1887	−30	1901
Oklahoma, Okla	56	1891	49	1891	36	1895	27	1898	9	1894	− 2	1901
Omaha, Nebr	50	1895	44	1886	30	1873	15	1878	−14	1887	−17	1884
Oswego, N. Y	45	1885	44	1884	35	1904	24	1887	− 1	1875	−18	1884
Palestine, Tex	62	1898	54	1891	43	1899	34	1898	20	1887	8	1894
Parkersburg, W. Va	48	1894	45	1890	33	1888	20	1895	15	1900	− 5	1901
Pensacola, Fla	64	1882	62	1891	54	1890	38	1887	28	[9]1903	14	1894
Philadelphia, Pa	54	1891	51	1890	40	[8]1904	31	1873	8	1875	− 5	1880
Phoenix, Ariz	46	1885	49	1885	39	1884	34	1883	24	1880	18	1879
Pierre, S. Dak	45	1899	39	1893	27	1893	4	1895	−16	1896	−19	[5]1903
Pittsburg, Pa	49	1894	45	1890	35	1893	20	1887	4	1880	− 9	1880
Port Crescent, Wash	35	1895	26	1893	22	1893	27	1893	15	1900	18	1892
Port Huron, Mich	42	1901	41	1888	30	1899	19	1895	− 6	1880	−14	1880

[1] Also in 1891.
[2] Also in 1889.
[3] Also in 1895.
[4] Also in 1898.
[5] Also in 1901.
[6] Also in 1897.
[7] Also in 1893.
[8] Also in 1888.
[9] Also in 1881.

Table Showing the Lowest Temperatures (in Degrees Fahrenheit) Recorded

Stations.	No. years' record.	January.		February.		March.		April.		May.		June.	
		Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Portland, Me	33	−15	1887	−15	1894	− 7	1872	14	1874	30	[3]1903	42	1891
Portland, Oreg	32	− 2	1888	7	1884	20	1896	28	1875	32	1894	39	1875
Pueblo, Colo	16	−23	1901	−27	1899	− 9	1892	15	1893	24	1893	38	1892
Raleigh, N. C	18	2	1893	− 2	1899	16	1901	30	[4]1903	38	1891	46	1894
Rapid City, S. Dak	19	−30	[1]1888	−34	1899	−17	1891	− 2	1899	20	1883	35	[1]1902
Redbluff, Cal	27	18	1888	22	1884	26	1896	30	1901	37	1879	44	1898
Richmond, Va	7	9	1904	− 3	1899	15	1901	28	1898	40	1898	52	[5]1904
Rochester, N. Y	33	−14	1904	−12	1875	− 7	1872	11	1879	28	1880	36	1879
Roseburg, Oreg	27	− 6	1888	3	1884	18	1896	26	1890	30	1886	36	1893
Sacramento, Cal	27	19	1888	21	1884	29	1880	35	1901	39	1896	44	1890
St. Louis, Mo	34	−22	1884	−16	1899	3	1899	22	1875	32	1875	44	1894
St. Paul, Minn	32	−41	1888	−33	1899	−22	1873	7	1874	24	1875	36	1885
Salt Lake City, Utah	31	−20	1883	−13	1884	0	1890	18	1896	25	1899	33	1898
San Antonio, Tex	26	6	1886	4	1899	21	1890	35	1886	44	1903	53	1877
San Diego, Cal	33	32	1894	34	1891	36	1894	39	1875	45	1894	50	1884
Sandusky, Ohio	27	−16	1879	−15	1899	− 3	1885	14	1881	32	1903	40	1894
San Francisco, Cal	34	29	1888	33	1887	33	1896	40	1891	43	1899	47	1893
San Luis Obispo, Cal	11	22	1901	25	1899	28	1898	32	1896	34	1899	37	1895
Santa Fe, N. Mex	31	−13	1883	−11	1888	0	1880	11	1875	24	1887	33	1880
Sault Ste. Marie, Mich	16	−28	1899	−37	1899	−27	1890	3	1890	24	1890	32	1897
Savannah, Ga	34	12	1886	8	1899	24	1899	33	1881	44	1894	50	1889
Seattle, Wash	12	13	1902	12	1899	20	1897	32	1898	37	1894	42	1895
Shreveport, La	32	1	1886	− 5	1899	22	1890	32	1881	46	1892	55	1889
Sioux City, Iowa	15	−28	1892	−31	1899	−14	1891	13	1890	29	1900	39	1901
Spokane, Wash	24	−30	1888	−23	1890	−10	1891	22	1890	29	1881	34	1891
Springfield, Ill	25	−22	1884	−21	1899	2	1899	19	1899	34	1895	40	1894
Springfield, Mo	19	−17	1894	−29	1899	3	1899	22	1899	34	1888	46	1882
Tacoma, Wash	8	14	1899	9	1899	24	1898	30	1898	36	[2]1904	40	1899
Tampa, Fla	15	27	1900	22	1899	32	1893	38	1891	53	1894	64	1898
Toledo, Ohio	34	−16	1897	−16	1885	− 3	1873	12	1875	30	[6]1903	41	1894
Topeka, Kans	17	−23	1892	−25	1899	− 1	1891	20	1899	30	1889	36	1888
Valentine, Nebr	18	−38	1894	−37	1899	−26	1891	0	1899	22	1887	36	1892
Vicksburg, Miss	32	3	1886	− 1	1899	24	1892	31	1881	44	1903	52	[7]1903
Walla Walla, Wash	19	−17	1888	−15	1893	2	1891	29	1887	35	1901	40	1901
Washington, D. C	34	−14	1881	−15	1899	4	1873	22	1875	34	1876	43	1897
Wichita, Kans	17	−14	1892	−22	1899	3	1892	21	1899	34	[8]1903	44	1897
Williston, N. Dak	11	−36	1894	−46	1903	−35	1897	− 4	1899	18	1899	30	1903
Wilmington, N. C	34	9	1884	5	1899	20	1873	28	1875	38	1876	51	1884
Winnemucca, Nev	26	−28	1888	−22	1890	− 3	1882	12	1901	17	1887	29	[9]1902
Yankton, S. Dak	32	−32	1892	−30	1899	−18	1888	− 3	1881	24	1875	38	[10]1903
Yuma, Ariz	29	22	1883	25	1880	31	1881	38	1901	44	1887	52	1892

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[1] Also in 1883.
[2] Also in 1900.
[3] Also in 1900 and 1902.
[4] Also in 1898.
[5] Also in 1899 and 1903.
[6] Also in 1876.
[7] Also in 1889.
[8] Also in 1893.
[9] Also in 1880.
[10] Also in 1879.

AT WEATHER BUREAU STATIONS FOR EACH MONTH OF THE YEAR—Continued.

Stations.	July.		August.		September.		October.		November.		December.	
	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.	Degrees.	Year.
Portland, Me	48	1899	46	1894	32	1904	25	1904	— 6	1875	—17	1872
Portland, Oreg	43	1904	43	1876	36	1895	31	1895	11	1896	3	1879
Pueblo, Colo	41	1903	41	1899	28	[1] 1903	19	1895	—17	1896	—18	1892
Raleigh, N. C	54	1892	52	1887	39	1888	31	1893	17	1891	9	1899
Rapid City, S. Dak	42	1883	42	1888	25	1893	10	1895	— 9	1896	—25	1882
Redbluff, Cal	53	1881	52	1881	45	1901	32	1881	26	1880	25	1879
Richmond, Va	58	1898	56	1904	43	1904	33	1904	19	1901	4	1899
Rochester, N. Y	45	1898	43	1884	34	1879	19	1879	1	1875	—11	1871
Roseburg, Oreg	40	1887	40	1882	35	1881	22	1881	14	1896	7	1879
Sacramento, Cal	47	1901	48	1887	44	1893	36	1881	27	1880	24	1883
St. Louis, Mo	55	1891	52	1887	37	1899	24	1887	5	1872	—17	1872
St. Paul, Minn	45	1895	40	1891	28	1899	12	1887	—24	1875	—39	1879
Salt Lake City, Utah	43	1902	44	1880	29	1895	22	1878	— 2	1896	—10	1879
San Antonio, Tex	58	1878	57	1891	46	1890	37	1898	21	1880	10	1880
San Diego, Cal	54	1884	54	1878	50	1880	44	1878	38	1895	32	1879
Sandusky, Ohio	52	[2] 1895	48	1890	36	1899	24	1887	0	1880	—13	1880
San Francisco, Cal	47	[3] 1902	46	1903	47	1900	45	1881	38	1896	34	1879
San Luis Obispo, Cal	42	1903	40	1894	41	1898	38	1898	28	1895	24	1897
Santa Fe, N. Mex	43	1897	40	1882	27	1880	16	1880	—11	1880	—13	1879
Sault Ste. Marie, Mich	40	1898	38	1890	28	1899	16	1898	— 7	1894	—19	1894
Savannah, Ga	63	1898	61	1896	46	1897	37	1873	22	1872	12	1894
Seattle, Wash	48	[4] 1904	46	1899	36	1895	31	1893	15	1896	27	1895
Shreveport, La	62	1899	54	1891	45	1896	31	1873	18	1880	10	1880
Sioux City, Iowa	41	1895	40	1891	25	1899	12	1895	— 9	1891	—22	1901
Spokane, Wash	41	1887	38	1881	26	1889	12	1887	—13	1896	—18	1884
Springfield, Ill	49	1891	48	1891	31	1899	20	1887	2	1898	—14	1880
Springfield, Mo	53	1891	44	1891	37	1895	21	1887	6	1898	—11	1901
Tacoma, Wash	45	1904	45	1899	36	1902	32	1899	16	1900	22	1898
Tampa, Fla	65	1890	66	1896	54	1897	44	1891	32	1903	19	1894
Toledo, Ohio	49	1891	44	1888	30	1899	21	1887	5	1880	—15	1872
Topeka, Kans	50	1891	40	1891	33	1888	22	1887	— 5	1887	—10	1892
Valentine, Nebr	38	1887	36	1893	21	1893	3	1887	—32	1887	—34	1901
Vicksburg, Miss	62	1881	54	1891	42	1896	34	1887	22	[5] 1903	12	1880
Walla Walla, Wash	45	1891	44	1887	36	1895	24	1887	— 9	1896	— 2	1898
Washington, D. C	52	1895	49	1890	36	1904	26	1893	12	1880	—13	1880
Wichita, Kans	53	1892	45	1893	34	1895	26	1898	7	[6] 1897	—10	1894
Williston, N. Dak	37	1898	34	1895	17	1895	— 3	1895	—26	1898	—38	1904
Wilmington, N. C	58	1890	56	1874	42	1887	32	1876	20	1872	10	1880
Winnemucca, Nev	33	1903	26	1887	16	1895	10	1878	— 9	1880	—20	1879
Yankton, S. Dak	44	1877	41	1893	24	1899	9	1878	—18	1887	—34	1879
Yuma, Ariz	61	1879	60	1887	50	1894	41	1883	31	1880	24	1901

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[1] Also in 1896 and 1902.

[2] Also in 1892.

[3] Also in 1898.

[4] Also in 1901.

[5] Also in 1891.

[6] Also in 1896.

MONTHLY AND ANNUAL MEAN MAXIMUM AND MEAN MINIMUM TEMPERATURES.

The means for each station have been determined from the length of record set opposite the station.

The average monthly temperature can be determined by dividing the sum of the mean maximum and the mean minimum by 2.

MONTHLY AND ANNUAL MEAN MAXIMUM TEMPERATURE.

[In degrees Fahrenheit.]

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Record.
Abilene, Tex	54	58	67	76	83	89	93	92	85	76	64	57	75	1885–1901
Albany, N. Y	31	32	40	56	69	78	82	80	72	60	46	36	57	1875–1901
Alpena, Mich	26	26	32	46	59	69	75	73	66	53	39	30	50	1872–1901
Amarillo, Tex	47	47	59	69	76	84	86	86	80	69	58	47	67	1892–1901
Astoria, Oreg	46	48	52	55	61	64	68	69	66	60	52	48	57	1884–1901
Atlanta, Ga	50	54	61	70	79	85	87	85	81	71	60	53	70	1878–1901
Atlantic City, N. J	39	40	45	54	64	74	78	78	73	63	52	43	59	1873–1901
Augusta, Ga	56	60	67	74	83	89	91	89	85	75	65	58	74	1874–1901
Baker City, Oreg	33	36	45	55	64	70	82	82	70	60	45	35	56	1889–1901
Baltimore, Md	41	43	49	61	73	82	86	84	77	66	53	44	63	1872–1901
Binghamton, N. Y	33	30	41	55	67	77	83	80	73	63	45	35	57	1897–1901
Bismarck, N. Dak	17	20	32	54	67	75	82	81	70	56	37	25	51	1874–1901
Block Island, R. I	37	36	40	49	58	68	74	74	69	59	50	42	55	1880–1901
Boise, Idaho	38	43	55	63	71	80	89	87	76	63	50	40	63	1877–1901
Boston, Mass	35	36	42	54	66	76	81	78	71	60	49	39	57	1872–1901
Buffalo, N. Y	31	31	37	50	62	72	77	76	70	58	45	36	54	1873–1901
Cairo, Ill	43	46	55	67	76	84	87	86	79	69	55	46	66	1872–1901
Cape Henry, Va	48	50	54	62	73	81	85	84	79	68	59	51	66	1880–1901
Cape May, N. J	41	41	46	54	64	74	79	78	75	65	53	44	60	1880–1901
Carson City, Nev	44	48	53	61	67	76	84	84	75	65	56	46	63	1888–1901
Charleston, S. C	58	60	65	72	80	86	88	87	83	74	66	59	73	1874–1901
Charlotte, N. C	49	53	60	70	79	86	88	86	81	70	60	52	70	1878–1901
Chattanooga, Tenn	50	53	60	71	79	86	88	86	82	72	60	52	70	1879–1901
Cheyenne, Wyo	36	38	44	54	64	76	82	80	72	59	46	40	58	1872–1901
Chicago, Ill	31	33	41	54	64	74	80	78	72	60	45	36	56	1872–1901
Cincinnati, Ohio	40	43	51	63	74	83	87	84	78	66	52	43	64	1872–1901
Cleveland, Ohio	33	35	41	54	66	76	80	78	72	61	47	38	57	1872–1901
Columbia, Mo	42	41	53	67	76	86	89	89	82	71	54	45	66	1889–1901
Columbia, S. C	55	58	65	74	84	90	91	90	85	74	65	58	74	1888–1901
Columbus, Ohio	36	39	47	61	72	82	86	83	77	64	49	40	61	1878–1901
Concordia, Kans	36	38	50	67	74	84	90	88	81	69	52	42	64	1885–1901
Corpus Christi, Tex	62	64	69	75	80	84	86	86	84	78	70	64	75	1887–1901
Davenport, Iowa	29	33	43	60	70	80	85	82	75	62	45	35	58	1874–1901
Denver, Colo	42	44	52	60	69	81	86	85	77	65	51	45	63	1871–1901
Des Moines, Iowa	28	32	44	61	72	81	86	84	75	64	46	34	59	1878–1901
Detroit, Mich	31	32	40	55	67	77	81	79	72	60	45	36	56	1873–1901
Dodge, Kans	40	44	56	68	76	86	90	89	81	54	69	45	66	1874–1901
Dubuque, Iowa	27	31	41	59	71	80	85	82	74	61	43	33	57	1874–1901
Duluth, Minn	19	22	32	46	57	66	75	72	64	52	36	25	47	1874–1901
Eastport, Me	28	29	35	45	55	64	69	68	62	53	42	32	48	1873–1901
El Paso, Tex	57	63	70	79	88	96	95	93	87	78	66	59	78	1880–1901
Erie, Pa	34	35	40	52	65	74	78	77	71	60	48	39	56	1874–1901
Escanaba, Mich	23	24	32	46	58	70	76	73	66	54	39	29	49	1880–1901
Eureka, Cal	53	53	54	55	57	59	60	61	61	60	57	54	57	1887–1901
Fort Smith, Ark	48	52	62	73	80	88	92	91	85	75	61	52	72	1882–1901
Fresno, Cal	53	61	66	74	82	91	100	98	89	78	67	54	76	1887–1901
Galveston, Tex	59	62	68	74	81	86	89	88	84	78	68	62	75	1874–1901
Grand Haven, Mich	31	31	38	52	63	72	76	75	69	58	44	36	54	1873–1901
Green Bay, Wis	24	24	34	53	65	76	81	78	70	57	39	29	53	1886–1901
Hannibal, Mo	36	34	49	64	73	84	87	86	80	68	50	39	63	1892–1901
Harrisburg, Pa	36	36	45	60	71	80	84	82	75	62	49	40	60	1888–1901
Hatteras, N. C	51	52	56	63	72	79	83	82	79	70	61	54	67	1880–1901
Havre, Mont	24	24	35	55	66	73	82	82	69	57	36	32	53	1892–1901
Helena, Mont	27	30	40	54	63	70	80	79	67	55	40	33	53	1880–1901
Huron, S. Dak	21	24	38	59	69	79	85	83	75	60	41	30	55	1881–1901

MONTHLY AND ANNUAL MEAN MAXIMUM TEMPERATURE—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Record.
Independence, Cal	52	58	62	70	76	87	93	89	83	72	62	52	71	1894–1901
Indianapolis, Ind	36	39	48	62	72	82	86	84	77	64	49	40	62	1874–1901
Jacksonville, Fla	64	67	72	78	84	89	91	90	86	78	71	65	78	1874–1901
Jupiter, Fla	72	73	76	78	82	85	87	87	86	82	78	73	80	1888–1901
Kansas City, Mo	38	38	50	65	74	84	87	86	79	68	51	42	64	1888–1901
Keokuk, Iowa	32	36	46	62	72	82	87	84	77	65	48	38	61	1871–1901
Key West, Fla	74	76	77	80	84	87	89	89	87	83	78	74	82	1872–1901
Kittyhawk, N. C	49	52	56	63	74	81	85	84	79	70	60	53	67	1880–1901
Knoxville, Tenn	47	51	58	69	78	84	87	86	81	70	58	49	68	1874–1901
La Crosse, Wis	24	28	39	57	69	78	83	80	71	59	41	30	55	1872–1901
Lander, Wyo	34	34	43	55	65	75	83	82	72	59	46	34	57	1891–1901
Lewiston, Idaho	37	40	56	64	73	79	88	88	74	62	49	40	62	1879–1901
Lexington, Ky	41	42	51	64	73	83	85	84	79	67	52	45	64	1888–1901
Lincoln, Nebr	36	33	46	62	72	84	89	87	80	69	50	35	62	1897–1901
Little Rock, Ark	49	53	62	73	80	87	90	89	83	74	61	53	71	1879–1901
Los Angeles, Cal	64	66	67	70	73	78	83	84	82	76	72	67	74	1877–1901
Louisville, Ky	42	46	54	66	76	85	88	87	80	69	54	46	66	1872–1901
Lynchburg, Va	45	48	55	66	76	84	87	85	79	68	57	48	67	1874–1901
Marquette, Mich	24	25	31	46	58	69	74	72	66	53	38	29	49	1875–1901
Memphis, Tenn	48	52	61	72	79	87	90	88	82	72	60	52	70	1874–1901
Meridian, Miss	56	58	66	76	83	88	90	89	85	76	65	59	74	1889–1901
Miles City, Mont	27	27	38	58	70	78	88	87	74	60	40	33	56	1892–1901
Milwaukee, Wis	27	30	37	51	62	72	78	76	70	58	43	33	53	1874–1901
Minneapolis, Minn	24	24	36	58	69	78	83	81	74	60	39	28	54	1890–1901
Mobile, Ala	59	62	68	75	83	88	90	89	86	77	68	61	75	1874–1901
Montgomery, Ala	57	61	67	76	84	90	92	90	86	76	66	58	75	1872–1901
Moorhead, Minn	12	16	30	53	66	76	80	78	69	55	34	21	49	1881–1901
Nantucket, Mass	38	36	41	49	58	67	73	74	68	58	50	42	54	1886–1901
Narragansett, R. I	37	37	42	53	63	73	78	77	71	60	51	41	57	1882–1901
Nashville, Tenn	47	50	58	69	78	86	89	87	81	71	58	50	69	1874–1901
Neahbay, Wash	46	46	51	55	60	64	66	66	62	56	52	49	56	1884–1901
New Haven, Conn	36	36	43	55	66	76	80	78	72	61	49	40	58	1873–1901
New Orleans, La	61	65	70	76	82	87	89	88	85	78	69	63	76	1874–1901
New York, N. Y	37	38	44	57	68	78	82	80	74	63	51	41	60	1872–1901
Norfolk, Va	48	51	56	65	75	84	88	85	79	69	59	51	67	1873–1901
Northfield, Vt	25	26	34	51	64	74	77	75	68	54	41	30	52	1887–1901
North Platte, Nebr	34	38	48	62	71	80	86	85	77	65	49	40	61	1874–1901
Oklahoma, Okla	47	48	60	72	78	86	90	90	85	74	59	50	70	1890–1901
Omaha, Nebr	29	34	45	62	72	82	86	84	76	64	47	36	60	1873–1901
Oswego, N. Y	31	31	37	50	63	73	78	76	70	57	45	36	54	1872–1901
Palestine, Tex	56	61	68	77	82	89	92	92	87	78	67	60	76	1881–1901
Parkersburg, W. Va	41	41	51	64	74	83	86	84	78	66	52	44	64	1888–1901
Pensacola, Fla	60	63	67	74	81	86	88	88	85	78	68	62	75	1879–1901
Philadelphia, Pa	39	41	47	60	72	81	85	83	76	65	52	43	62	1874–1901
Phoenix, Ariz	65	70	77	85	93	102	105	102	98	86	76	69	86	1881–1901
Pierre, S. Dak	28	28	39	60	71	81	88	87	78	63	42	33	58	1891–1901
Pittsburg, Pa	38	41	48	62	73	82	85	83	77	66	51	42	62	1875–1901
Point Reyes Light, Cal	54	55	56	56	58	59	59	60	62	61	60	56	58	1889–1901
Port Crescent, Wash	42	43	48	52	57	62	65	67	63	56	49	44	54	1892–1901
Port Huron, Mich	29	30	36	51	63	74	78	77	71	58	43	33	54	1874–1901
Portland, Me	30	32	39	51	62	72	77	75	68	57	45	35	53	1874–1901
Portland, Oreg	44	48	55	61	67	71	78	77	71	62	52	47	61	1874–1901
Pueblo, Colo	44	45	55	65	73	84	89	88	81	68	55	47	66	1888–1901
Raleigh, N. C	50	52	59	69	79	86	88	86	81	69	60	52	69	1887–1901
Rapid City, S. Dak	33	34	42	58	66	76	85	84	75	62	47	41	59	1881–1901
Redbluff, Cal	53	58	64	70	79	88	97	95	87	76	64	54	74	1880–1901
Rochester, N. Y	31	32	38	53	66	76	80	78	72	59	44	35	55	1871–1901
Roseburg, Oreg	47	50	57	61	68	73	80	80	74	64	54	48	63	1877–1901
Sacramento, Cal	53	58	63	69	75	83	89	89	84	74	64	54	71	1877–1901
St. Louis, Mo	40	43	52	66	75	84	88	86	79	68	53	44	65	1873–1901

MONTHLY AND ANNUAL MEAN MAXIMUM TEMPERATURE—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.	Record.
St. Paul, Minn	20	24	36	56	68	77	83	80	71	57	38	27	53	1872–1901
Salt Lake City, Utah	36	41	50	60	69	79	88	87	77	63	49	40	62	1874–1901
San Antonio, Tex	62	66	73	81	86	91	94	94	89	82	70	65	79	1877–1901
San Diego, Cal	62	62	64	65	67	70	73	75	74	70	68	65	68	1874–1901
Sandusky, Ohio	34	35	42	55	68	77	82	80	74	62	48	38	58	1877–1901
San Francisco, Cal	55	58	60	61	63	66	65	65	68	66	62	56	62	1874–1901
San Luis Obispo, Cal	62	67	65	68	69	76	78	78	78	75	70	66	71	1885–1901
Santa Fe, N. Mex	39	43	52	60	69	78	81	79	73	62	50	43	61	1873–1901
Sault Ste. Marie, Mich	22	22	30	48	59	70	74	71	64	51	37	28	48	1888–1901
Savannah, Ga	60	63	68	75	82	88	90	88	84	75	67	61	75	1874–1901
Seattle, Wash	45	48	51	57	63	68	74	73	66	59	50	47	58	1894–1901
Shreveport, La	55	60	68	77	84	90	93	92	86	77	65	59	76	1874–1901
Sioux City, Iowa	28	29	40	61	71	81	86	84	77	63	43	34	58	1889–1901
Spokane, Wash	33	38	48	59	68	74	83	83	71	59	44	37	58	1881–1901
Springfield, Ill	35	38	48	63	72	82	86	84	77	66	50	40	62	1879–1901
Springfield, Mo	42	43	53	66	74	82	86	86	79	68	54	45	65	1887–1901
Tampa, Fla	68	71	76	80	85	89	89	89	88	82	76	70	80	1890–1901
Toledo, Ohio	33	35	42	56	68	78	82	80	72	61	47	37	58	1873–1901
Topeka, Kans	38	40	52	68	75	85	89	87	81	70	53	44	65	1887–1901
Valentine, Nebr	31	34	44	60	69	79	86	84	75	64	49	40	60	1885–1901
Vicksburg, Miss	56	60	68	75	83	89	91	90	86	76	66	59	75	1874–1901
Walla Walla, Wash	38	44	54	63	72	78	88	88	75	64	50	44	63	1885–1901
Washington, D. C	41	44	50	63	74	83	87	84	78	66	54	44	64	1872–1901
Wichita, Kans	42	42	55	69	76	86	90	90	82	71	54	46	67	1888–1901
Williston, N. Dak	18	19	30	56	68	74	82	81	69	56	32	25	51	1893–1901
Wilmington, N. C	56	58	63	70	78	85	87	86	82	73	64	58	72	1874–1901
Winnemucca, Nev	38	44	52	60	68	78	88	87	76	64	51	42	62	1877–1901
Yankton, S. Dak	26	30	41	60	70	80	85	84	76	63	44	33	58	1873–1901
Yuma, Ariz	66	72	78	85	93	101	106	104	100	87	76	68	86	1878–1901

MEAN MINIMUM TEMPERATURE AT WEATHER BUREAU STATIONS.

[In degrees Fahrenheit.]

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.	Record.
Abilene, Tex	33	35	44	54	62	68	72	71	65	55	43	37	53	1885–1901
Albany, N. Y	15	16	24	38	50	59	64	62	55	43	32	22	40	1875–1901
Alpena, Mich	12	10	16	31	41	52	57	55	49	39	28	19	34	1874–1901
Amarillo, Tex	24	23	32	43	52	61	65	64	57	46	33	26	44	1892–1901
Astoria, Oreg	38	39	42	45	50	53	56	58	55	50	44	40	48	1884–1901
Atlanta, Ga	35	38	43	52	60	67	70	69	64	54	43	37	53	1878–1901
Atlantic City, N. J	26	26	32	40	51	60	66	66	61	50	38	29	45	[a]1873–1901
Augusta, Ga	38	40	46	53	62	69	72	71	66	54	44	38	54	1874–1901
Baker City, Oreg	18	20	27	34	41	45	51	51	42	35	28	22	34	1889–1901
Baltimore, Md	27	28	34	44	55	64	69	67	61	49	39	31	47	1872–1901
Binghamton, N. Y	17	16	25	36	47	55	61	59	51	42	31	22	38	1897–1901
Bismarck, N. Dak	−4	−1	12	32	43	53	58	55	45	33	16	6	29	1874–1901
Block Island, R. I	25	25	30	38	47	56	63	63	59	49	40	30	44	1880–1901
Boise, Idaho	20	26	34	39	46	51	57	56	46	39	30	25	39	1877–1901
Boston, Mass	19	20	27	37	48	58	63	62	55	45	34	24	41	1872–1901
Buffalo, N. Y	18	17	24	35	46	58	63	61	55	44	33	24	40	1873–1901
Cairo, Ill	28	31	39	50	59	68	71	69	62	50	39	32	50	1872–1901
Cape Henry, Va	33	34	38	46	57	66	70	70	66	56	45	36	52	1880–1901
Cape May, N. J	29	28	34	43	53	62	68	68	64	54	42	32	48	1880–1901
Carson City, Nev	22	25	30	35	41	46	52	50	44	35	28	23	36	1887–1901
Charleston, S. C	43	45	50	57	66	72	75	75	70	60	51	44	59	1874–1901
Charlotte, N. C	33	35	41	49	59	66	69	68	62	51	41	35	51	1878–1901
Chattanooga, Tenn	33	36	42	51	58	66	69	68	62	51	41	35	51	1879–1901
Cheyenne, Wyo	14	15	21	30	39	47	53	52	43	33	23	18	32	1872–1901
Chicago, Ill	16	19	27	39	49	59	65	65	58	46	32	23	42	1872–1901
Cincinnati, Ohio	25	27	34	45	56	65	69	67	60	48	37	30	47	1872–1901
Cleveland, Ohio	20	20	27	38	50	59	64	62	56	45	34	25	42	1872–1901
Columbia, Mo	20	21	30	45	53	63	65	63	57	44	32	25	43	1889–1901
Columbia, S. C	36	38	44	52	61	68	71	70	65	53	44	37	53	1887–1901
Columbus, Ohio	22	24	30	42	52	62	65	63	56	45	34	26	44	1878–1901
Concordia, Kans	16	18	28	43	52	62	66	64	57	44	30	23	42	1885–1901
Corpus Christi, Tex	50	52	58	66	71	76	77	77	74	67	57	51	64	1887–1901
Davenport, Iowa	13	16	26	41	52	61	66	64	56	44	30	21	41	1874–1901
Denver, Colo	16	19	26	35	44	53	58	57	48	37	26	20	37	1871–1901
Des Moines, Iowa	10	14	26	41	51	61	65	63	55	43	28	18	39	1878–1901
Detroit, Mich	18	19	25	38	49	59	63	61	55	44	32	24	41	1873–1901
Dodge, Kans	16	20	29	41	52	61	66	64	56	43	28	22	42	1874–1901
Dubuque, Iowa	9	13	24	40	50	60	64	62	54	43	28	18	39	1874–1901
Duluth, Minn	2	4	15	31	40	49	57	58	50	39	23	10	32	1874–1901
Eastport, Me	13	15	23	33	40	47	52	54	49	41	31	19	35	1873–1901
Elkins, W. Va	20	15	28	35	45	55	59	58	50	39	28	21	38	1899–1901
El Paso, Tex	31	35	42	49	58	66	69	67	61	50	38	32	50	1880–1901
Erie, Pa	20	19	25	37	49	59	64	62	57	46	35	26	42	1874–1901
Escanaba, Mich	6	4	12	29	41	52	57	55	48	39	26	16	32	[b]1880–1901
Eureka, Cal	41	41	42	44	48	50	51	52	50	48	45	42	46	1887–1901
Evansville, Ind	29	25	37	46	57	67	70	69	61	51	38	28	48	1897–1901
Flagstaff, Ariz	17	19	23	27	34	41	51	48	39	31	22	17	31	1898–1901
Fort Canby, Wash	37	38	40	43	47	51	54	54	52	49	44	40	46	1833–1899
Fort Smith, Ark	29	32	40	52	59	67	70	69	63	51	40	33	50	1882–1901
Fort Worth, Tex	36	30	44	52	63	71	72	74	67	57	45	35	54	1898–1901
Fresno, Cal	37	40	43	47	53	59	64	63	58	50	43	38	50	1887–1901
Galveston, Tex	48	51	57	65	71	77	79	78	75	68	58	52	65	1874–1901
Grand Haven, Mich	19	18	24	36	46	56	61	59	53	43	32	25	39	1873–1901
Grand Junction, Colo	16	22	30	39	49	57	64	60	52	41	30	16	40	1899–1901
Greenbay, Wis	9	9	19	35	45	56	60	58	51	40	26	16	35	1886–1901
Hannibal, Mo	20	18	31	45	54	64	67	65	58	46	32	24	44	1892–1901
Harrisburg, Pa	24	24	31	42	53	62	65	64	58	46	36	28	44	1888–1901
Hatteras, N. C	39	40	44	51	62	70	73	73	70	60	51	42	56	1880–1901
Havre, Mont	5	4	13	32	42	49	54	52	42	32	16	15	30	1894–1901
Helena, Mont	11	14	23	34	42	49	55	54	45	36	24	18	34	1880–1901

[a] Except January, 1895, to October, 1896, inclusive.

[b] Except July, 1894, to November, 1898.

MEAN MINIMUM TEMPERATURE AT WEATHER BUREAU STATIONS—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.	Record.
Huron, S. Dak	— 1	2	16	35	44	55	59	57	47	34	18	9	31	1881-1901
Independence, Cal	31	34	38	44	50	60	66	62	55	46	37	30	46	1894-1901
Indianapolis, Ind	21	23	31	44	54	63	66	64	57	46	34	26	44	1874-1901
Jacksonville, Fla	47	49	53	59	66	72	74	74	71	63	54	48	61	1874-1901
Jupiter, Fla	58	59	62	65	69	73	75	75	74	70	66	61	67	1888-1901
Kalispell, Mont	19	15	28	33	40	45	49	47	41	34	28	23	34	1899-1901
Kansas City, Mo	22	21	31	47	55	65	69	67	59	48	34	27	45	1888-1901
Keokuk, Iowa	16	19	29	43	54	64	68	65	57	46	31	22	43	1871-1901
Key West, Fla	65	67	68	71	75	78	79	79	78	75	71	66	72	1872-1901
Kittyhawk, N. C	36	37	40	48	58	67	71	72	68	58	47	39	54	1880-1901
Knoxville, Tenn	30	33	38	48	56	64	68	66	60	48	38	32	48	1874-1901
La Crosse, Wis	7	10	22	38	50	60	64	61	53	41	26	15	37	1872-1901
Lander, Wyo	6	6	18	29	38	44	50	48	39	29	18	8	28	1891-1901
Lewiston, Idaho	25	26	36	41	48	55	59	58	49	41	34	28	42	1879-1901
Lexington, Ky	26	27	34	46	54	64	67	65	59	47	36	30	46	1887-1901
Lincoln, Nebr	18	14	25	41	51	62	66	64	56	46	29	18	41	1897-1901
Little Rock, Ark	34	36	43	54	61	69	72	70	64	54	42	36	53	1879-1901
Los Angeles, Cal	44	45	47	49	52	56	59	60	57	52	48	46	51	1877-1901
Louisville Ky	27	29	36	47	56	66	69	67	61	49	38	31	48	1872-1901
Lynchburg, Va	29	31	37	45	55	64	68	66	60	48	38	31	48	1874-1901
Marquette, Mich	9	8	15	30	41	50	56	56	49	39	26	17	33	1875-1901
Memphis, Tenn	33	36	44	54	61	69	72	71	64	54	43	37	53	1874-1901
Meridian, Miss	37	39	45	54	60	67	70	69	64	50	42	39	53	[a]1889-1901
Miles City, Mont	7	6	17	35	45	53	59	57	46	35	19	14	33	1891-1901
Milwaukee, Wis	13	15	24	37	45	55	62	61	54	43	29	20	38	1874-1901
Minneapolis, Minn	6	5	19	38	48	59	62	60	52	41	23	13	36	[b]1890-1901
Mobile, Ala	43	46	51	59	65	72	74	73	69	59	50	44	59	1874-1901
Montgomery, Ala	39	43	48	55	63	70	73	72	67	56	46	40	56	1872-1901
Moorhead, Minn	— 8	— 5	10	32	42	53	56	54	45	34	15	3	28	1881-1901
Mount Tamalpais, Cal	42	42	43	44	47	56	62	58	59	52	47	43	50	1898-1901
Nantucket, Mass	26	25	30	38	47	55	62	63	58	49	40	31	44	1886-1901
Narragansett, R. I	20	20	26	36	46	56	62	61	55	44	34	25	41	1882-1901
Nashville, Tenn	30	33	39	50	58	67	70	68	61	50	40	33	50	1874-1901
Neahbay, Wash	36	36	38	39	44	47	50	51	48	44	41	38	43	1884-1901
New Haven, Conn	20	21	27	38	48	58	63	62	55	44	34	25	41	1873-1901
New Orleans, La	47	50	55	62	68	74	76	75	72	63	54	48	62	1874-1901
New York, N. Y	24	24	30	40	52	61	67	66	60	48	38	28	45	1872-1901
Norfolk, Va	33	35	39	47	58	66	71	70	65	54	44	36	52	1873-1901
Northfield, Vt	6	6	16	29	42	51	54	52	45	35	25	13	31	1887-1901
North Platte, Nebr	10	14	23	37	47	56	62	60	50	37	23	16	36	1874-1901
Oklahoma, Okla	28	27	37	50	58	66	70	68	62	51	37	30	49	1890-1901
Omaha, Nebr	11	15	26	42	52	62	67	65	56	44	28	19	41	1873-1901
Oswego, N. Y	17	17	24	36	46	56	62	61	54	43	33	22	39	1872-1901
Palestine, Tex	38	42	49	57	63	70	72	71	66	57	47	42	56	1881-1901
Parkersburg, W. Va	26	25	32	43	52	62	64	63	57	44	35	28	44	1888-1901
Pensacola, Fla	45	49	53	60	67	74	75	74	71	62	52	47	61	1879-1901
Philadelphia, Pa	26	27	32	42	53	63	68	67	60	49	38	30	46	1874-1901
Phoenix, Ariz	35	38	43	49	56	64	74	73	65	54	44	37	53	1881-1901
Pierre, S. Dak	8	7	18	37	48	58	63	61	51	38	20	14	35	1891-1901
Pittsburg, Pa	24	24	30	42	52	61	65	63	57	46	36	28	44	1875-1901
Point Reyes Light, Cal	44	44	45	45	46	47	48	50	51	49	48	45	47	1889-1901
Port Crescent, Wash	31	31	34	36	41	46	47	48	42	40	36	34	39	1892-1895 1898-1901
Port Huron, Mich	16	15	22	35	45	55	60	59	53	42	31	22	38	1874-1901
Portland, Me	15	17	25	36	46	55	61	59	52	42	32	21	38	1874-1901
Portland, Oreg	33	35	39	42	48	52	56	55	51	46	40	37	45	1874-1901
Pueblo, Colo	16	17	26	36	46	54	60	58	49	37	25	19	37	1888-1901
Raleigh, N. C	32	34	40	48	58	66	69	68	62	50	41	34	50	1887-1901
Rapid City, S. Dak	10	10	18	34	43	52	59	58	48	37	22	19	34	[c]1881-1901
Redbluff, Cal	37	40	44	48	54	61	66	65	60	52	44	38	51	1880-1901
Richmond, Va	31	27	39	46	56	66	70	70	62	52	39	32	49	1897-1901

[a] Except September, 1896, to January, 1899.

[b] Except from August, 1891, to December, 1892, inclusive.

[c] Except July, 1883, to December, 1887, inclusive.

Mean Minimum Temperature at Weather Bureau Stations—Continued.

	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual.	Record.
Rochester, N. Y	18	17	23	36	47	57	62	60	53	42	32	22	39	1871–1901
Roseburg, Oreg	35	36	38	41	46	50	52	53	48	43	39	37	43	1877–1901
Sacramento, Cal	39	42	46	48	52	56	58	58	56	50	43	40	49	1877–1901
St. Louis, Mo	24	26	35	48	57	67	71	69	61	50	36	29	48	1873–1901
St. Paul, Minn	2	7	18	36	48	58	62	60	51	39	22	11	35	1872–1901
Salt Lake City, Utah	21	25	32	40	47	55	63	62	52	42	32	25	41	1874–1901
San Antonio, Tex	42	45	52	59	66	71	73	72	68	60	49	44	58	1877–1901
San Diego, Cal	46	47	49	52	56	59	62	64	61	56	51	48	54	1874–1901
Sandusky, Ohio	20	21	28	40	51	61	66	64	58	47	34	26	43	1877–1901
San Francisco, Cal	45	47	48	49	51	52	53	53	54	53	51	47	50	1874–1901
San Luis Obispo, Cal	42	43	44	44	47	49	52	53	51	49	45	41	47	1894–1901
Santa Fe, N. Mex	18	22	28	35	44	52	57	56	49	39	28	21	38	1871–1901
Sault Ste. Marie, Mich	8	4	12	30	39	48	54	53	47	38	26	16	31	1888–1901
Savannah, Ga	43	46	50	57	65	71	74	73	69	59	50	44	58	1874–1901
Seattle, Wash	36	38	38	42	47	51	54	55	51	46	41	39	45	1893–1901
Shreveport, La	38	42	49	57	64	71	73	72	66	56	46	41	56	1874–1901
Sioux City, Iowa	10	10	21	40	49	60	64	61	52	40	24	17	37	1889–1901
Spokane, Wash	20	22	30	37	45	50	55	54	46	38	30	26	38	1881–1901
Springfield, Ill	19	22	31	44	53	63	67	64	57	46	33	25	44	1879–1901
Springfield, Mo	25	25	34	48	55	64	67	66	60	48	36	29	46	1887–1901
Tacoma, Wash	36	36	37	40	46	50	53	54	49	44	40	37	44	1897–1901
Tampa, Fla	50	53	57	60	67	72	73	73	72	65	58	52	63	1890–1901
Tatoosh Island, Wash	38	38	40	42	46	49	52	52	49	47	43	40	44	1883–1898
Toledo, Ohio	19	20	27	39	50	60	64	62	56	44	33	25	42	1873–1901
Topeka, Kans	18	20	29	44	53	63	67	65	57	45	31	24	43	1887–1901
Valentine, Nebr	6	9	20	36	45	56	60	58	48	36	22	16	34	1885–1901
Vicksburg, Miss	40	43	49	57	64	70	73	72	67	56	47	42	57	1874–1901
Walla Walla, Wash	26	30	36	43	49	54	60	61	52	44	36	32	44	1885–1901
Washington, D. C	26	27	33	43	54	63	68	66	59	47	37	29	46	1872–1901
Wichita, Kans	23	22	32	46	55	64	68	67	59	48	34	27	46	1888–1901
Williston, N. Dak	– 2	– 3	8	33	43	52	56	53	42	31	13	7	28	1894–1901
Wilmington, N. C	38	40	45	52	61	69	72	71	66	56	46	40	55	1874–1901
Winnemucca, Nev	18	22	28	34	40	48	54	52	42	32	24	20	35	1877–1901
Yankton, S. Dak	5	9	21	37	49	59	64	61	52	39	23	14	36	1873–1901
Yuma, Ariz	42	46	50	55	61	68	77	77	70	58	49	44	58	1878–1901

MONTHLY AND ANNUAL MEAN RELATIVE HUMIDITY.

The monthly and annual mean relative humidity as derived from observations made at 8 a. m. and 8 p. m., seventy-fifth meridian time, for the period 1888–1901, appears in the table.

The relative humidity furnishes no direct indication of the absolute amount of moisture in the air. For purposes of comparison consideration should be given to the fact that as the temperature is lowered the capacity of the air to retain moisture is decreased. Of two stations having the same average percentage of relative humidity, but different mean temperatures, that station which has the higher mean temperature will have the greater amount of moisture.

MONTHLY AND ANNUAL MEAN RELATIVE HUMIDITY.

	Number years observation.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Per ct.	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*
Abilene, Tex	14	68.9	67.6	59.2	60.5	65.5	62.9	58.6	61.2	65.5	64.4	65.6	67.4	63.9
Albany, N. Y	14	80.4	78.9	76.9	69.3	71.4	71.9	71.9	75.7	77.3	79.3	80.7	81.3	76.2
Alpena, Mich	14	83.3	82.1	80.7	77.4	75.3	75.5	74.5	79.1	82.1	83.6	84.5	84.3	80.2
Amarillo, Tex	10	62.5	67.7	50.0	49.3	56.8	57.8	59.8	61.2	60.4	61.7	59.4	64.5	59.3
Atlanta, Ga	14	76.4	73.2	69.7	64.5	64.1	70.7	75.6	78.3	73.9	69.9	73.0	75.5	72.1
Atlantic City, N. J	12	81.1	79.4	80.5	78.8	82.8	83.3	84.4	83.6	81.8	80.4	80.4	80.5	81.4
Augusta, Ga	14	75.5	72.8	69.9	65.6	66.9	72.6	76.4	80.1	78.1	76.8	77.6	78.1	73.4
Baker City, Oreg	12	75.0	72.2	65.9	56.8	58.5	55.0	43.8	44.9	52.0	59.9	69.5	74.7	60.7
Baltimore, Md	14	71.6	69.6	67.2	61.5	66.7	68.6	69.6	71.2	74.2	71.1	71.7	70.6	69.5
Bismarck, N. Dak	14	73.9	74.5	72.9	67.4	64.4	69.4	65.3	64.1	65.4	71.9	75.8	73.5	69.9
Block Island, R. I	14	76.0	76.1	79.3	80.6	85.9	86.9	87.3	86.6	82.8	79.9	78.0	74.9	81.2
Boise, Idaho	6	74.0	70.0	60.2	52.0	54.0	46.3	35.6	39.2	44.0	57.4	69.8	76.0	56.7
Boston, Mass	14	72.1	71.2	68.2	65.9	70.6	71.6	71.4	75.4	76.9	74.7	75.3	71.4	72.1
Buffalo, N. Y	14	78.3	77.9	74.6	69.1	70.9	71.9	71.4	71.4	72.6	71.6	74.4	76.1	73.4
Cairo, Ill	14	77.4	74.3	70.9	67.1	71.5	75.7	74.6	76.7	77.4	74.9	73.5	76.1	74.2
Carson City, Nev	12	63.5	58.2	50.8	43.2	44.8	39.8	35.5	38.5	44.5	53.3	58.3	68.4	50.2
Charleston, S. C	14	77.3	77.1	77.2	74.5	75.1	78.7	79.8	81.4	80.9	78.1	77.7	78.4	78.0
Charlotte, N. C	14	71.6	70.0	68.9	62.2	65.9	71.9	75.1	77.6	75.6	71.0	70.7	72.3	71.1
Chattanooga, Tenn	14	75.5	71.6	69.1	64.4	69.1	73.6	74.8	77.1	76.2	73.7	72.2	75.3	72.7
Cheyenne, Wyo	14	52.5	58.9	56.5	54.9	58.0	58.3	50.9	52.0	46.1	50.1	54.3	51.9	53.7
Chicago, Ill	14	82.1	81.4	77.3	71.9	71.4	72.9	69.5	71.4	70.0	71.5	77.4	80.4	74.8
Cincinnati, Ohio	14	76.6	73.6	70.0	62.0	64.4	64.8	64.8	66.8	68.0	68.9	72.9	75.4	69.0
Cleveland, Ohio	14	77.6	77.2	75.1	70.0	71.1	70.6	68.2	70.5	72.8	72.4	74.8	75.0	72.9
Columbus, Ohio	14	80.2	78.0	73.8	66.7	67.9	69.1	66.9	69.9	70.3	71.8	77.0	79.0	72.6
Concordia, Kans	14	74.8	75.4	70.1	64.0	65.6	66.6	64.6	67.0	66.7	69.1	73.0	75.7	68.6
Corpus Christi, Tex	13	83.6	82.9	82.5	83.3	82.6	82.5	82.0	82.5	80.8	78.9	81.5	81.9	82.1
Davenport, Iowa	14	79.9	78.8	73.2	75.3	66.9	68.9	64.6	68.5	71.3	70.5	74.9	78.8	72.6
Denver, Colo	14	52.6	55.1	51.3	47.9	52.0	45.8	49.0	44.0	43.6	45.5	47.2	50.4	48.7
Des Moines, Iowa	14	77.6	76.1	72.1	65.7	66.4	69.8	66.9	69.7	70.6	68.7	72.1	77.9	71.1
Detroit, Mich	14	82.7	80.6	76.4	69.6	69.5	69.6	66.9	69.8	73.4	74.8	78.8	81.3	74.4
Dodge, Kans	14	72.1	71.9	63.5	61.1	63.9	63.4	62.0	62.4	63.1	63.9	65.7	69.3	66.9
Dubuque, Iowa	12	80.3	81.3	77.6	69.7	69.5	71.5	70.0	71.4	73.8	76.2	78.2	80.5	75.0
Duluth, Minn	14	79.5	78.4	75.4	73.4	68.9	72.4	71.4	73.9	74.2	75.9	78.7	79.6	75.1
Eastport, Me	14	73.1	72.8	74.1	72.6	79.4	82.4	83.1	84.1	82.2	79.4	77.1	74.4	77.9
El Paso, Tex	14	47.3	40.1	30.0	24.0	23.2	27.5	45.0	46.4	47.1	45.3	44.4	45.1	38.8
Erie, Pa	14	80.9	82.4	79.5	77.1	74.4	73.0	69.3	71.1	73.3	73.1	76.6	78.9	75.5
Eureka, Cal	14	86.4	85.4	84.4	85.6	86.1	86.0	87.9	89.8	88.2	89.0	87.4	85.4	86.8
Fort Smith, Ark	14	73.1	71.0	66.9	65.6	72.1	73.1	70.9	71.9	72.6	70.8	70.6	69.9	70.6
Fresno, Cal	14	82.2	71.9	67.8	57.5	51.7	40.2	32.7	34.9	42.6	56.4	66.4	81.9	57.2
Galveston, Tex	14	83.9	84.6	84.1	83.6	79.3	79.6	77.4	78.4	77.1	75.5	80.1	82.7	85.2
Grand Haven, Mich	14	87.1	86.6	80.6	71.0	71.5	72.8	69.8	73.9	75.9	77.4	79.9	83.6	77.5
Greenbay, Wis	14	79.0	78.6	75.8	70.5	68.1	69.9	68.6	71.9	73.9	76.6	76.9	78.4	74.0
Hannibal, Mo	4	75.0	76.8	67.5	65.8	70.2	69.0	68.8	68.6	71.8	66.0	71.6	77.4	70.7
Harrisburg, Pa	9	77.9	75.2	72.6	65.3	69.7	72.6	70.9	73.0	76.3	74.8	76.6	76.7	73.5
Hatteras, N. C	13	84.4	83.6	82.4	81.2	83.2	84.4	84.2	83.8	81.3	81.1	81.6	83.8	82.9
Havre, Mont	14	77.7	79.9	75.4	60.3	60.5	59.5	53.8	53.1	60.6	66.0	73.5	76.3	66.4
Helena, Mont	14	67.5	65.8	62.4	51.9	53.5	52.3	43.6	41.8	50.4	55.6	61.9	66.1	56.1
Huron, S. Dak	14	80.1	79.0	74.1	65.4	62.2	67.4	64.9	65.9	64.4	68.6	72.6	77.4	70.2
Independence, Cal	5	50.8	36.4	29.2	25.4	25.4	19.8	16.8	23.2	20.0	30.4	36.4	42.8	29.7
Indianapolis, Ind	14	77.9	76.2	70.9	64.4	66.0	66.5	62.8	65.1	67.0	67.7	71.5	75.0	69.2

MONTHLY AND ANNUAL MEAN RELATIVE HUMIDITY—Continued.

	Number years observation.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Per ct.	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*
Jacksonville, Fla	14	79.6	79.0	75.8	73.2	74.2	78.8	79.7	81.4	83.2	81.4	81.9	82.5	79.5
Jupiter, Fla	14	80.9	80.4	77.6	75.6	79.2	82.9	82.4	82.6	83.6	80.8	79.1	80.9	80.5
Kansas City, Mo	14	74.8	75.7	71.6	66.7	68.0	70.0	68.4	69.5	69.3	65.7	68.9	74.7	70.3
Keokuk, Iowa	14	78.6	77.2	72.5	67.9	69.1	70.7	67.1	68.7	70.7	69.7	73.8	77.6	72.0
Key West, Fla	14	80.7	79.3	75.9	73.1	74.0	76.2	74.4	74.9	77.9	78.5	79.4	80.4	77.1
Kittyhawk, N. C	7	78.0	80.1	80.6	80.7	81.6	82.9	82.1	81.4	80.1	79.7	80.8	80.0	80.7
Knoxville, Tenn	14	76.2	72.3	69.6	64.4	69.5	74.1	76.6	78.9	76.7	74.6	74.1	77.1	73.7
La Crosse, Wis	8	80.1	78.4	71.9	63.4	63.6	71.0	68.5	70.9	73.0	71.8	75.5	78.0	72.2
Lander, Wyo	13	69.9	67.8	60.8	54.8	52.8	48.5	46.1	47.6	50.2	60.0	65.7	69.8	57.8
Lexington, Ky	11	75.8	72.6	69.7	63.5	66.6	69.6	71.4	71.8	69.4	66.4	71.5	73.4	70.1
Lincoln, Nebr	5	74.2	75.8	72.4	67.6	68.8	67.2	63.6	68.8	65.4	68.4	71.0	76.8	70.0
Little Rock, Ark	14	76.8	72.4	69.5	67.4	70.9	74.1	74.0	75.2	74.6	71.8	72.2	74.1	72.8
Los Angeles, Cal	14	67.4	68.9	71.9	73.1	76.5	74.7	75.6	75.8	72.9	74.6	66.2	62.6	71.7
Louisville, Ky	14	72.2	70.9	68.1	61.6	64.6	66.1	64.9	67.2	67.4	66.6	69.5	71.0	67.5
Lynchburg, Va	14	71.4	70.9	68.0	61.7	68.7	72.2	72.7	75.6	77.4	76.3	65.9	72.1	71.1
Marquette, Mich	14	83.5	83.6	80.3	76.3	73.0	73.1	72.4	76.7	77.7	80.2	82.5	83.6	78.6
Memphis, Tenn	14	74.2	72.1	70.0	66.2	68.3	72.6	74.0	75.3	73.0	70.1	71.6	73.8	71.8
Meridian, Miss	6	80.0	81.0	75.2	74.2	74.5	75.7	80.7	81.3	82.0	75.5	78.0	81.6	78.3
Miles City, Mont	10	83.0	83.6	79.3	66.9	60.4	61.5	54.3	53.1	61.2	70.9	80.4	82.2	69.7
Milwaukee, Wis	14	78.4	77.6	77.6	73.1	71.2	73.4	70.6	72.6	74.4	75.6	76.9	77.4	74.9
Mobile, Ala	14	82.9	82.6	81.0	78.2	79.4	79.4	82.1	84.0	81.0	78.3	81.6	83.6	80.9
Montgomery, Ala	14	74.9	74.1	70.7	65.5	65.0	70.1	75.6	78.9	73.6	70.6	72.9	76.0	72.4
Moorhead, Minn	14	86.3	85.8	83.6	72.9	64.9	71.4	74.0	72.5	72.1	75.4	84.6	86.2	74.1
Nantucket, Mass	14	79.4	79.0	80.6	81.6	84.1	85.6	85.7	85.9	82.7	81.3	80.0	79.6	82.1
Nashville, Tenn	14	75.2	73.3	68.3	64.0	66.3	69.3	70.4	72.5	71.9	69.4	72.3	75.2	70.7
New Haven, Conn	14	75.1	73.1	72.1	70.8	75.5	76.6	78.2	79.3	80.6	77.8	76.9	74.8	75.9
New Orleans, La	14	78.9	80.1	76.8	74.9	73.1	77.2	77.7	78.9	77.1	74.5	78.8	79.4	77.3
New York, N. Y	14	75.2	73.6	71.1	67.8	71.8	72.5	73.6	75.4	75.6	73.9	74.8	73.6	73.2
Norfolk, Va	14	78.4	77.9	76.9	74.9	78.3	79.0	80.3	82.2	80.2	79.4	78.1	77.6	78.6
Northfield, Vt	14	79.0	75.7	76.1	70.0	72.2	74.8	77.0	82.9	83.6	81.6	79.8	78.6	77.6
North Platte, Nebr	14	70.5	70.3	68.4	62.0	63.6	65.9	65.8	67.1	63.9	63.6	66.8	67.8	66.3
Oklahoma, Okla	11	73.9	72.1	67.5	65.2	72.4	72.5	69.4	67.4	67.7	65.9	69.9	74.1	69.8
Omaha, Nebr	14	75.6	74.7	72.1	63.9	63.9	66.9	65.9	68.8	67.3	65.4	69.9	75.6	69.2
Oswego, N. Y	14	82.7	81.7	76.6	71.1	72.6	73.4	72.6	74.0	74.0	74.0	76.6	79.9	75.8
Palestine, Tex	14	75.3	73.9	71.5	70.9	74.6	75.7	74.1	75.4	74.0	72.4	73.8	73.8	73.8
Parkersburg, W. Va	13	80.7	80.2	77.5	68.7	70.2	72.8	71.5	75.5	77.1	76.5	78.1	79.4	75.7
Pensacola, Fla	11	80.2	81.1	79.8	77.2	74.3	77.5	79.5	81.8	77.8	72.4	77.3	80.5	78.3
Philadelphia, Pa	14	73.1	71.8	68.2	62.7	68.3	67.9	69.8	71.9	74.2	71.9	72.4	71.4	70.3
Phœnix, Ariz	6	51.7	47.0	37.7	32.5	26.8	23.3	36.3	43.3	39.3	41.1	43.6	41.3	38.7
Pierre, S. Dak	10	73.6	73.1	71.3	62.4	58.0	60.0	56.5	56.9	56.9	63.0	69.9	74.6	64.7
Pittsburg, Pa	14	78.9	77.2	75.0	68.4	69.2	69.7	67.8	69.0	71.4	69.1	74.8	75.9	72.2
Port Huron, Mich	14	81.8	80.9	78.1	72.4	72.2	74.3	72.1	74.4	77.1	76.9	79.7	80.3	76.7
Portland, Me	14	75.3	74.0	72.3	69.2	76.1	76.1	76.4	80.3	81.0	78.9	76.7	75.4	75.1
Portland, Oreg	14	85.4	81.4	74.5	70.4	68.6	69.0	64.3	67.3	72.3	79.5	85.0	86.6	75.5
Pueblo, Colo	13	55.5	53.3	45.0	42.8	46.6	42.5	48.1	48.9	43.4	45.0	50.5	55.4	48.1
Raleigh, N. C	14	73.3	72.9	71.1	66.9	71.1	73.3	77.1	80.0	77.5	75.4	74.6	72.6	73.8
Rapid City, S. Dak	14	67.7	71.0	68.3	58.4	56.1	57.4	51.3	50.6	51.1	56.4	64.2	65.5	59.8
Redbluff, Cal	14	77.9	69.0	65.1	58.2	54.2	42.0	33.5	35.2	41.9	52.1	64.7	79.6	48.1
Rochester, N. Y	14	79.3	78.8	75.9	67.3	68.7	67.2	67.4	70.6	74.6	76.1	77.1	77.5	73.4
Roseburg, Oreg	14	86.2	81.5	75.6	70.8	70.3	67.4	62.1	62.8	68.9	78.2	84.1	87.6	74.6
Sacramento, Cal	13	80.3	73.1	70.2	65.2	66.4	59.4	57.7	57.8	56.8	61.6	69.2	81.1	66.7
St. Louis, Mo	14	74.3	73.9	71.4	65.4	68.2	68.2	66.1	67.5	68.6	66.2	70.2	73.6	69.5
St. Paul, Minn	14	80.0	79.9	74.6	65.6	62.6	67.9	66.0	69.6	70.2	71.4	75.2	79.6	71.9
Salt Lake City, Utah	14	73.8	70.2	59.3	48.6	47.0	38.1	34.9	36.4	38.6	52.2	62.4	71.6	52.8
San Antonio, Tex	14	67.5	64.6	62.7	67.4	70.3	68.5	65.6	66.2	68.7	64.4	66.6	64.6	66.6

MONTHLY AND ANNUAL MEAN RELATIVE HUMIDITY—Continued.

	Number years observation.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
		Per ct.	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*	*Per ct.*
San Diego, Cal	14	70.7	71.5	74.1	74.4	76.9	78.0	79.7	79.6	77.9	76.9	70.0	67.6	74.8
Sandusky, Ohio	14	79.8	78.6	75.4	69.4	69.1	70.9	67.7	69.4	70.4	71.0	74.8	76.6	74.4
San Francisco, Cal	14	79.7	77.9	77.5	77.9	79.0	80.1	84.4	85.8	81.1	78.6	77.3	79.7	79.9
San Luis Obispo, Cal	7	69.7	67.3	69.9	69.1	72.1	69.0	69.4	71.9	69.0	70.5	67.2	62.6	69.0
Santa Fe, N. Mex	14	55.3	54.9	42.9	35.1	35.6	31.1	47.4	47.3	45.8	47.2	47.8	54.6	45.4
Sault Ste. Marie, Mich.	13	88.5	86.2	81.8	74.6	72.9	75.4	78.2	81.4	83.7	84.3	85.5	86.5	79.9
Savannah, Ga	14	76.7	77.0	75.2	73.3	74.1	79.0	81.3	83.6	84.2	79.7	79.3	78.7	78.5
Seattle, Wash	9	84.0	79.4	75.0	70.8	71.1	69.7	67.3	70.9	76.2	81.2	84.3	84.3	76.2
Shreveport, La	14	74.6	70.8	68.4	69.4	72.6	75.6	75.1	75.7	73.9	72.0	73.6	73.1	72.9
Sioux City, Iowa	6	78.7	78.2	71.2	64.0	60.0	67.5	63.6	68.6	66.4	63.6	70.6	75.4	69.0
Spokane, Wash	14	84.4	77.4	67.6	58.0	56.4	52.1	44.0	44.4	54.4	65.6	79.5	84.1	64.0
Springfield, Ill	14	76.7	76.1	72.6	66.4	69.0	69.9	66.7	69.4	70.7	69.3	73.6	75.9	71.4
Springfield, Mo	14	76.6	75.9	71.2	66.0	70.6	74.6	72.9	73.1	72.5	69.6	72.4	76.4	72.6
Tampa, Fla	12	81.3	81.4	78.7	73.8	74.9	81.2	82.5	83.3	84.6	80.8	80.7	83.0	80.5
Toledo, Ohio	14	82.4	80.4	75.5	69.1	69.0	69.9	67.1	70.1	72.2	73.3	77.6	79.9	73.9
Valentine, Nebr	11	71.3	72.0	69.5	64.1	62.4	65.1	63.3	64.3	63.1	65.2	68.5	69.5	66.5
Vicksburg, Miss	14	74.2	72.4	67.0	69.1	71.4	76.4	78.9	80.6	76.0	71.1	72.0	72.4	73.5
Walla Walla, Wash	14	85.6	78.8	71.4	60.7	57.7	53.1	42.0	42.6	55.9	68.5	76.4	84.6	64.8
Washington, D. C	14	72.8	70.7	68.3	63.2	71.1	72.6	74.4	76.8	78.4	76.1	72.0	71.7	72.3
Wichita, Kans	13	73.8	72.8	65.5	62.5	66.7	67.9	66.5	65.9	66.6	64.6	67.6	72.2	67.7
Williston, N. Dak	14	80.1	80.3	77.4	63.4	57.9	63.6	58.6	57.0	61.3	69.6	77.4	78.6	68.8
Wilmington, N. C	14	78.4	78.8	78.4	75.5	78.6	81.4	83.4	84.5	83.1	80.6	79.4	78.6	80.1
Winnemucca, Nev	14	72.2	64.1	56.5	43.4	45.3	34.6	25.2	23.9	30.6	40.4	52.7	68.9	46.5
Yankton, S. Dak	6	76.2	76.2	73.5	63.5	64.3	68.2	69.5	69.6	67.0	67.5	72.8	77.0	70.4
Yuma, Ariz	14	44.9	42.1	40.9	34.9	35.9	35.3	42.8	47.1	43.8	44.2	41.9	45.1	41.6

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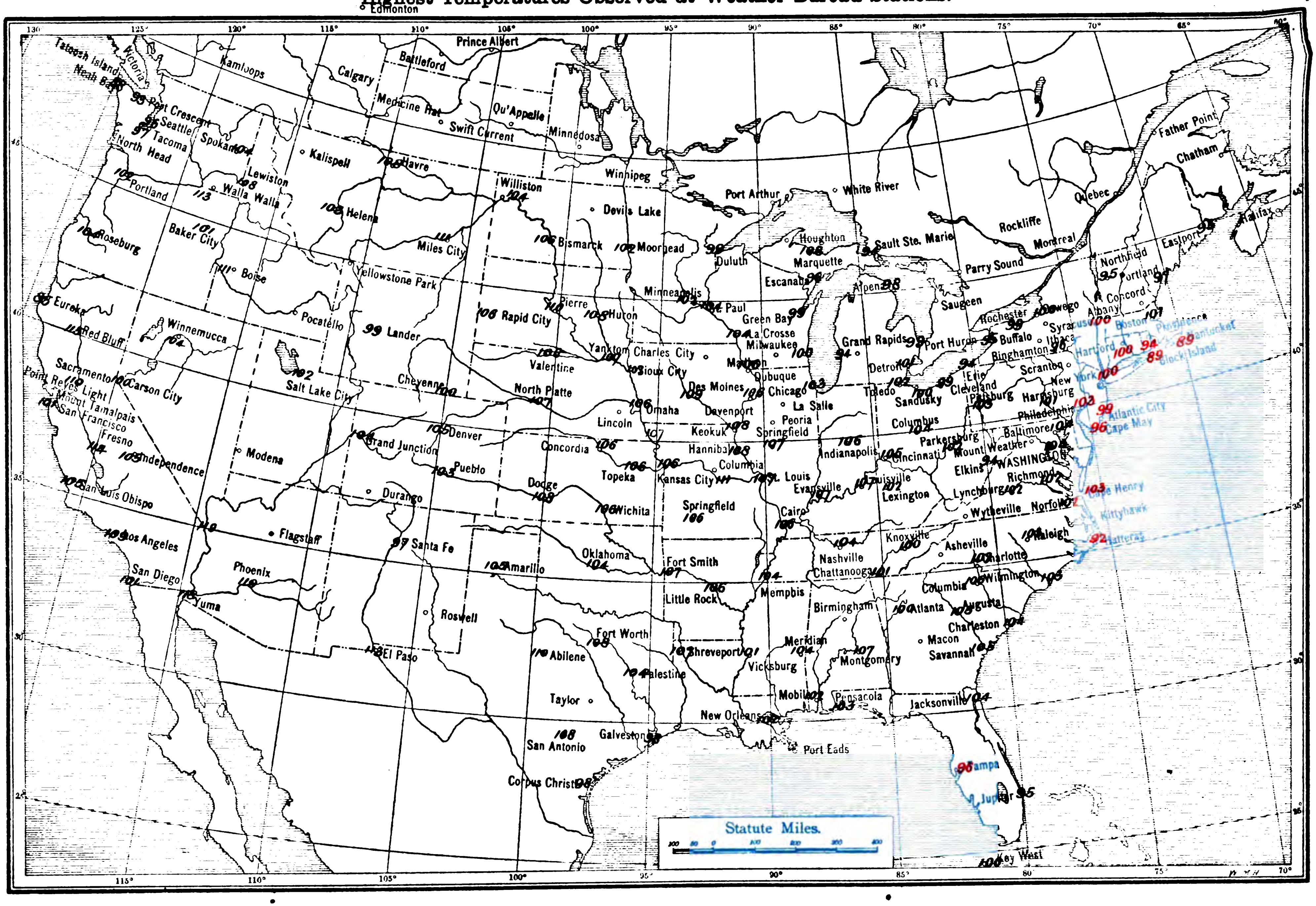
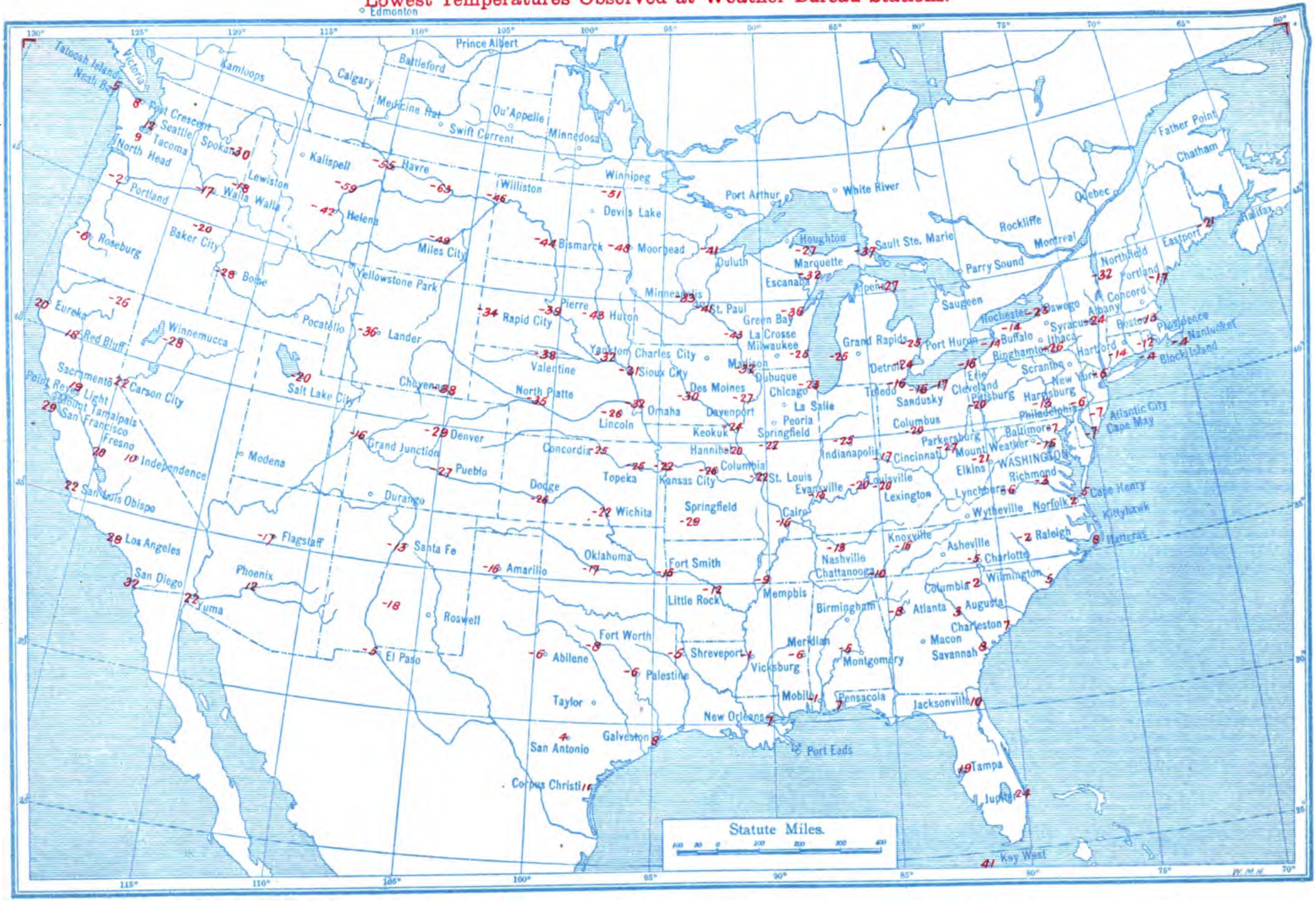
Highest Temperatures Observed at Weather Bureau Stations.



Lowest Temperatures Observed at Weather Bureau Stations.



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